

February 2025

NASDAQ: **IDYA**

IDEAYA Biosciences

Improving Lives
Through Transformative
Precision Medicines

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Other

This presentation concerns anticipated products that are under clinical investigation and which have not yet been approved for marketing by the FDA or any other country regulatory authority. These anticipated products are currently limited by Federal law to investigational use, and no representation is made as to their safety or effectiveness for the purposes for which they are being investigated.

Certain information contained in this presentation relates to or is based on studies, publications, surveys and other data obtained from third-party sources and the Company's own internal estimates and research. The Company has not independently verified, and makes no representation as to the adequacy, fairness, accuracy or completeness of any information obtained from third-party sources. In addition, all of the market data included in this presentation involves a number of assumptions and limitations, and there can be no guarantee as to the accuracy or reliability of such assumptions. Finally, the Company's own internal estimates and research have not been verified by any independent source.

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IDEAYA Biosciences Highlights

Leading Precision Medicine Oncology Biotechnology Company Advancing Potential First-in-Class Therapies

Target Milestone Guidance on Broad Pipeline of 6 Clinical & 3 Preclinical (IND-enabling) Programs:

PHASE 2/3	PHASE 1/2	PHASE 1/2	PRECLINICAL
<p>DAROVASERTIB (PKC)</p> <ul style="list-style-type: none"> Daro + Crizo 1L HLA-A2(-) MUM potential registrational Ph2/3 median PFS readout – by YE 2025 Daro + Crizo Ph2 1L MUM median OS readout – 2025 Daro Ph2 Neoadjuvant UM clinical data and regulatory update – H1 2025 Daro Ph3 Neoadjuvant UM registrational trial initiation – H1 2025 	<p>IDE397 (MAT2A)</p> <ul style="list-style-type: none"> Phase 1/2 mono expansion ongoing <p>IDE397 + Trodelvy® (Trop2-ADC)</p> <ul style="list-style-type: none"> Targeting Expansion in MTAP UC – Q1'25 Clinical data update in MTAP UC – 2025 Expansion into NSCLC <p>IDE397 + PRMT5</p> <ul style="list-style-type: none"> Wholly-owned clinical combo with IDE892 (IDEAYA PRMT5) – H2 2025 <p>IDE849 / SHR-4849 (DLL3 ADC)</p> <ul style="list-style-type: none"> Clinical data update and combo initiation with IDE161 – 2025 	<p>IDE275 / GSK959 (WERNER)</p> <ul style="list-style-type: none"> Medical conference update – H1 2025 <p>IDE161 (PARG)</p> <ul style="list-style-type: none"> Phase 1 mono expansion ongoing <p>IDE161 + Merck's anti-PD-1, KEYTRUDA® (pembrolizumab)</p> <ul style="list-style-type: none"> Phase 1 expansion in EC – 2025 <p>IDE161 + Topo1i-ADC</p> <ul style="list-style-type: none"> Enable clinical combo(s) – 2025 <p>IDE705 / GSK101 (POL THETA)</p> <ul style="list-style-type: none"> Phase 2 expansion (\$10M Milestone) 	<p>NEXT GEN PROGRAMS</p> <ul style="list-style-type: none"> IDE892 DC (MTA-cooperative PRMT5) IND submission – Mid-2025 IDE034 DC (B7H3/PTK7 Bi-Specific ADC) IND submission – H2 2025 IDE251 DC (KAT6/7) IND submission – H2 2025

Pharma Collaborations



~\$2B in potential milestones

Financials and Investor Relations

~\$1.1B to fund operations at least into 2028^{1, 2}

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(1) Includes aggregate of \$1.1 billion of cash, cash equivalents and marketable securities as of December 31, 2024 (Unaudited)

IDEAYA Precision Medicine Oncology Platform

Fully-Integrated Target, Biomarker, Drug Discovery and Translational Capabilities

Target & Biomarker Discovery and Validation



Bioinformatics, including AI Algorithms
Dual CRISPR, CRISPR, Chemogenomics
Genetically Engineered Models

- Key emerging novel targets identified, such as Werner Helicase, PARG and Pol Theta Helicase
- DECIPHER™ - Dual CRISPR SL Library in DDR Cell Lines in collaboration with UCSD
- PAGEO™ - Paralogous Gene Evaluation in Ovarian in collaboration with Broad Institute
- Machine Learning and Multi-Omics platform

Drug Discovery and Pharmacological Validation



Structure Based Drug Design
Small Molecule Chemistry
Protein Degradation Capabilities

- Crystal structures for SL discovery programs obtained to enable structure-based design
- INQUIRE™ Chemical Library - proprietary, expert-curated small-molecule library
- HARMONY™ Machine-Learning engine empowers drug discovery platform
- Differentiated clinical / candidate compounds discovered, including IDE397, IDE275 (GSK959), IDE161, and IDE705 (GSK101)

Translational Research and Opportunity Expansion



Genomics – DNA and RNA Analysis
Proteomics – Protein Expression Profiling
Tissue (IHC, IF) and Liquid Biopsies Analysis

- Translational research to define clinical biomarkers and transformative combinations
- Opportunity expansion through broad cell panel screening
- Pharmacodynamic biomarker analysis to confirm target modulation and correlation with clinical activity

IDEAYA Precision Oncology Drug Discovery Platform & IND Engine

AI/ML & Structure Based Drug Design to Deliver Potential First-in-Class Development Candidates

Structural Biology & Structure Based Drug Design

Full suite of capabilities in structural biology, biophysics, & computational chemistry

Ligand bound co-crystal structures resolved to enable Structure Based Drug Design for each of the Synthetic Lethality drug-discovery programs

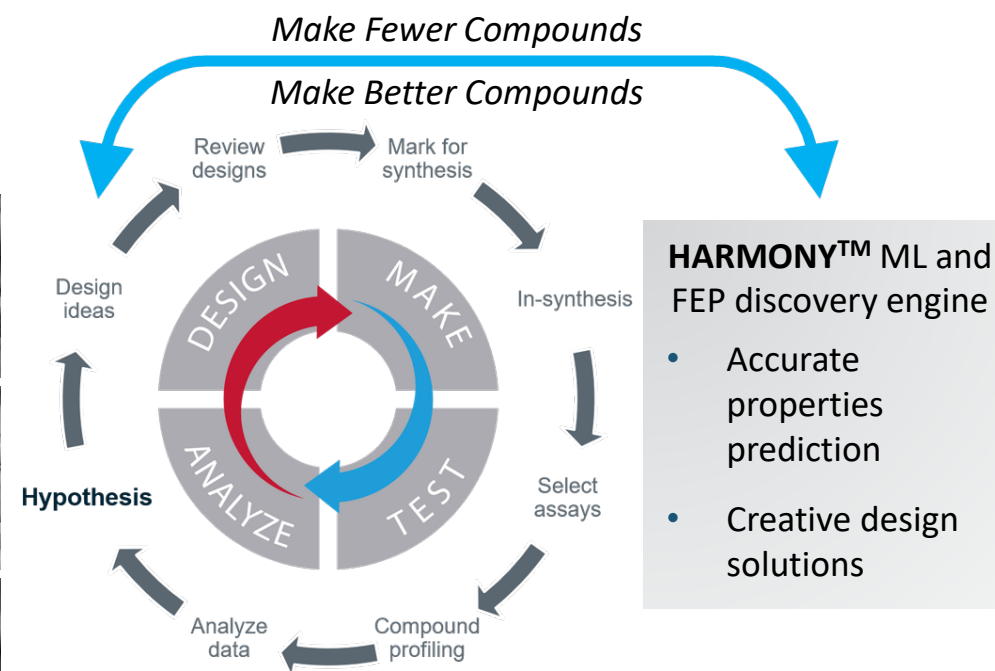
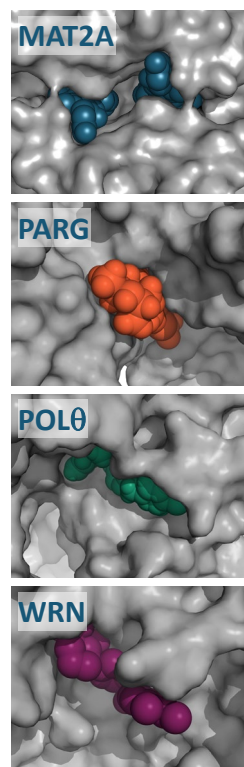
Multiple potential “first-in-world” co-crystal structures resolved, including for Werner Helicase, PARG and Pol Theta Helicase

INQUIRE™ Proprietary Chemical Library

Expert-curated HTS library to enhance hit discovery capabilities against novel SL targets classes

Enhances IDEAYA’s SL Drug Discovery Platform and competitive differentiation

AI/ML Enabled Computational Drug Discovery¹



AI/ML to Accelerate Time to IND for Potential First-in-Class DCs

(1) HARMONY™ ML: IDEAYA proprietary AI/Machine Learning platform designed to enable computational drug discovery and lead optimization
HTS = High-Throughput Screening, SL = Synthetic Lethality, DC = Development Candidate, IND = Investigational New Drug, AI/ML = Artificial Intelligence/Machine Learning

IDEAYA's Potential First-in-Class Precision Medicine Oncology Pipeline

	Modality/Indication	Biomarker	Pre-clinical	IND Enabling	Phase 1	Phase 2	Potential Registrational	Program Goals / Achievements	Collaborations	Commercial (IDEAYA)	
Darovasertib PKC	+cMET ¹ Combination 1L HLA-A2(-) MUM	GNAQ/11	[Progress bar: Phase 1 to Phase 2]						Ph 2 (AA) / Ph 3 registrational trial ¹ – targeting median PFS readout by YE'25	(4)	WW Commercial Rights
	(Neo)Adjuvant UM	GNAQ/11	[Progress bar: Phase 1 to Phase 2]				[Hatched bar: Phase 2 to Phase 3]		Ph 2 clinical data and reg. update(s) – targeting H1'25 Ph3 Neoadj. UM registrational trial initiation ² – H1'25		
	cMET ¹ Combination MUM	GNAQ/11	[Progress bar: Phase 1 to Phase 2]						Ph 2 OS 1L MUM readout – targeting 2025 HLA-A2(+) Phase 2 clinical trial ³	(4)	
IDE397 MAT2A	Monotherapy Solid Tumors	MTAP	[Progress bar: Phase 1 to Phase 2]						Ongoing Phase 2 expansion in MTAP urothelial and lung cancer		WW Commercial Rights
	Combination UC and NSCLC	MTAP	[Progress bar: Phase 1 to Phase 2]						Targeting Phase 1/2 IDE397 + Trodelvy [®] clinical data update – 2025; expansion into NSCLC	(5)	
IDE849 (SHR-4849) DLL3 ADC	SCLC, Neuroendocrine Tumors	DLL3	[Progress bar: Phase 1 to Phase 2]						Clinical data update and combo initiation with IDE161 – 2025	(6)	Worldwide Rights Outside of Greater China
IDE275 (GSK959) Werner Helicase	Solid Tumors	High-MSI	[Progress bar: Phase 1 to Phase 2]						Ongoing Phase 1 Trial in MSI-High Solid Tumors Medical conference update – 1H'2025	(7)	50% US Profits and 20% costs
IDE161 PARG	Monotherapy Solid Tumors	HRD	[Progress bar: Phase 1 to Phase 2]						Ongoing Phase 1/2 expansion in priority tumor type		WW Commercial Rights
	Combination Endometrial Cancer	High-MSI, MSS	[Progress bar: Phase 1 to Phase 2]						Ongoing Phase 1 IDE161 + KEYTRUDA [®]	(8)	
IDE705 (GSK101) Pol Theta Helicase	+Niraparib Combo Solid Tumors	HR Mutations	[Progress bar: Phase 1 to Phase 2]						Targeting Phase 2 Expansion (\$10M Milestone)	(7)	Global Royalties
IDE892 PRMT5 ^{MTA}	Combination Solid Tumors	MTAP	[Progress bar: Phase 1 to Phase 2]				[Hatched bar: Phase 2 to Phase 3]		Targeting IND Submission – Mid-Year 2025 Enable wholly-owned combination with IDE397 – H2'2025		WW Commercial Rights
IDE034 B7H3/PTK7 BsADC	Solid Tumors	B7H3/PTK7	[Progress bar: Phase 1 to Phase 2]				[Hatched bar: Phase 2 to Phase 3]		Targeting IND Submission – H2'2025	(9)	WW Commercial Rights
IDE251 KAT6/7	Solid Tumors	8p11	[Progress bar: Phase 1 to Phase 2]				[Hatched bar: Phase 2 to Phase 3]		Targeting IND Submission – H2'2025		WW Commercial Rights
Platform	Solid Tumors	Defined Biomarkers	[Progress bar: Phase 1 to Phase 2]				[Hatched bar: Phase 2 to Phase 3]		Multiple Potential First-in-Class Programs Advancing		WW Commercial Rights

(1) Integrated Phase 2/3 enables potential Accelerated Approval (AA, Phase 2) and potential Full Approval (Phase 3) based on FDA Type C Meeting Q1 2023

(2) Phase 3 randomized registrational trial enables potential approval based on FDA Type C Meeting Q3 2024

(3) Targeting enrollment of additional HLA-A2(+) patients in ongoing IDE196-001 Phase 2 clinical trial

(4) Pursuant to Pfizer Clinical Trial Collaboration and Supply Agreements for Darovasertib/Crizotinib Combination; IDEAYA retains all Darovasertib Commercial Rights

(5) Pursuant to Gilead Clinical Study Collaboration and Supply Agreement for IDE397 + Trodelvy[®], a Trop-2 directed antibody-drug conjugate (ADC), the Company will sponsor the study and Gilead will provide Trodelvy at no cost. Gilead retains all commercial rights to Trodelvy.

(6) Pursuant to exclusive license agreement with Jiangsu Hengrui Pharmaceuticals Co., Ltd for worldwide rights outside of Greater China

(7) Pursuant to GSK Collaboration, Option and License Agreement: Polθ: Global Royalties; WRN: 50/50 US Profits + ex-US Royalties

(8) Pursuant to Merck Clinical Trial Collaboration and Supply Agreement for IDE161 + Keytruda[®], an anti-PD-1 therapy; the Company will sponsor the study and Merck will provide Keytruda at no cost

(9) Pursuant to exclusive worldwide licensing and option agreement with Biocytogen

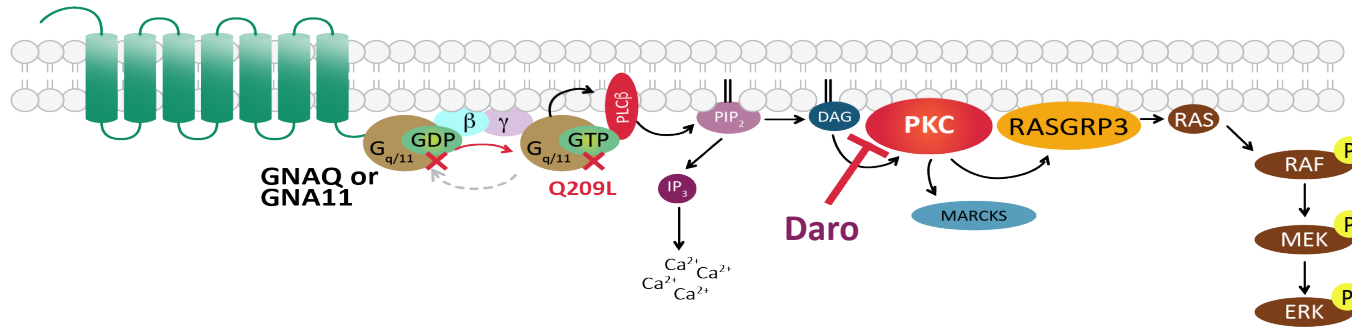
MAT2A = Methionine Adenosyltransferase 2a, MTAP = Methylthioadenosine Phosphorylase, MTA = Methylthioadenosine, PRMT5 = Protein Arginine Methyltransferase 5, PARG = Poly (ADP-ribose) Glycohydrolase, WRN = Werner Helicase, Polθ = DNA Polymerase Theta, HRD = Homologous Recombination Deficiency, MSI = Microsatellite Instability, PKC = Protein Kinase C, MUM = Metastatic Uveal Melanoma, UM = Uveal Melanoma, Crizo = Crizotinib, UC = Urothelial Cancer, NSCLC = Non-Small Cell Lung Cancer, WW = Worldwide, HLA-A2(-) = HLA-A2*02:01 Negative; HLA-A2(+) = HLA-A2*02:01 Positive, DC = Development Candidate, TOP1i = Topo-I-Payload, BsADC = Bispecific Antibody Drug Conjugate

[Hatched bar icon] = Target Program Milestones

Darovasertib: Potential to Broadly Impact Uveal Melanoma (UM)

Potential First-in-Class and Best-in-Class in (Neo)adjuvant UM and Metastatic UM (MUM)

Mutations in GNAQ / GNA11 activate PKC Signaling, a genetic driver of Uveal Melanoma

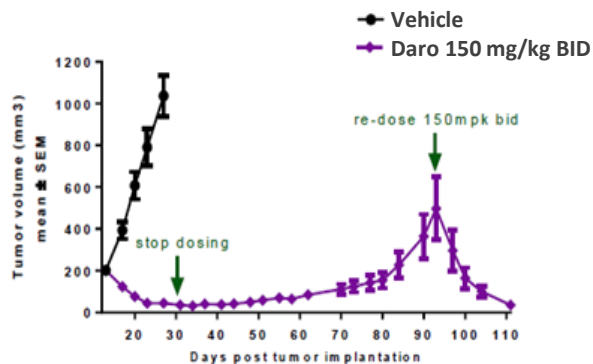


Darovasertib is an oral, potent and selective PKC inhibitor. GNAQ or GNA11 (~95%) and other upstream mutations activate PKC signaling in UM and MUM patients.

UM is typically treated with radiation and/or enucleation, with no approved systemic therapies for Neoadjuvant UM. MUM occurs in approximately 50% of UM patients and predominantly as liver metastasis in ~90% of MUM patients, with no approved therapies for HLA-A*02:01 negative MUM.

Daro Mono Rationale in Primary UM

Single Agent Daro Induces Tumor Regression
Uveal Melanoma Xenograft (92.1 mutant GNAQ)

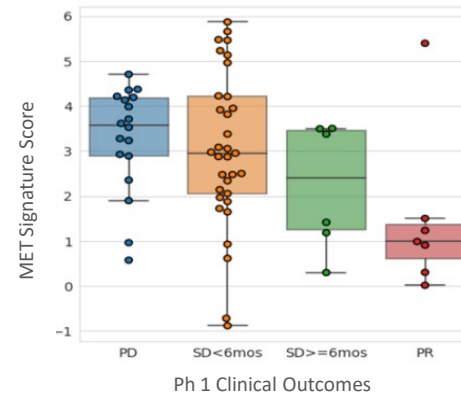


Van Raamsdonk, CD, et. al, Nature 2009; Van Raamsdonk CD, et. al, NEJM 2010; Piperno-Neumann S, et. al, J Clin Oncol 2014

Darovasertib + Crizotinib (Daro + Crizo) Combo Rationale for Use in MUM



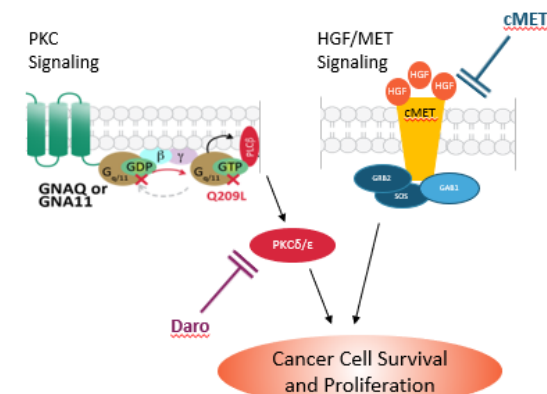
Daro Phase 1 Monotherapy Efficacy Association with cMET Expression



Ph 1 Clinical Outcomes
PD=Progressive Disease, SD=Stable Disease, PR=Partial Response

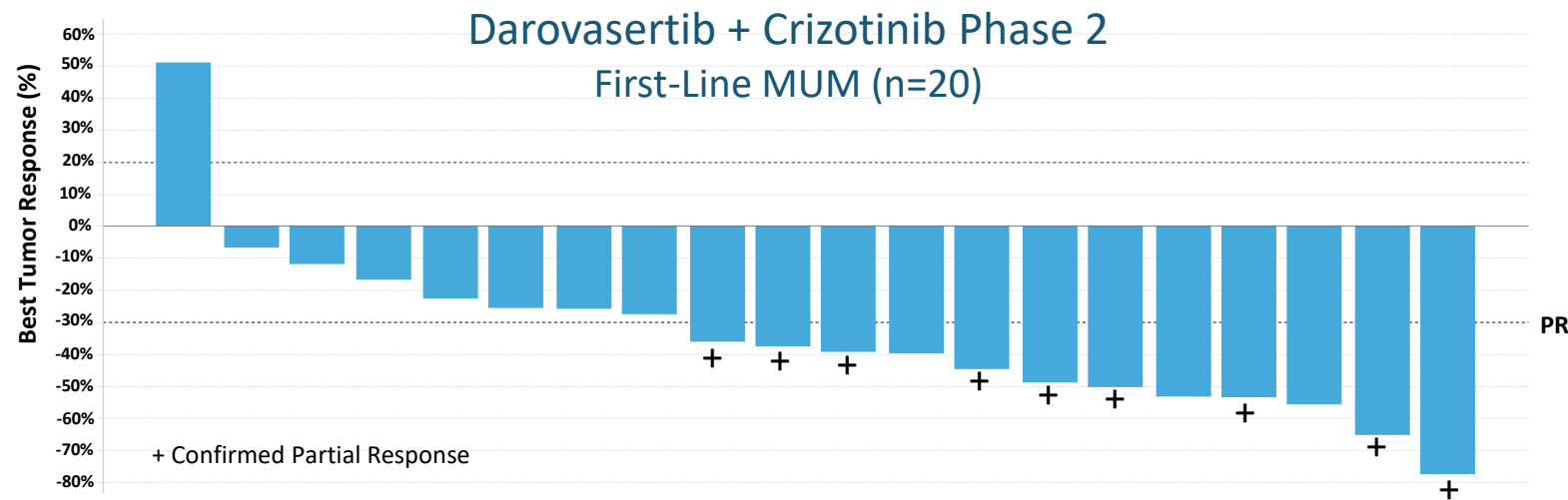
IDEAYA Data, AACR 2021

Activation of PKC and cMET Pathways with Observed cMET Overexpression in MUM Liver Metastases



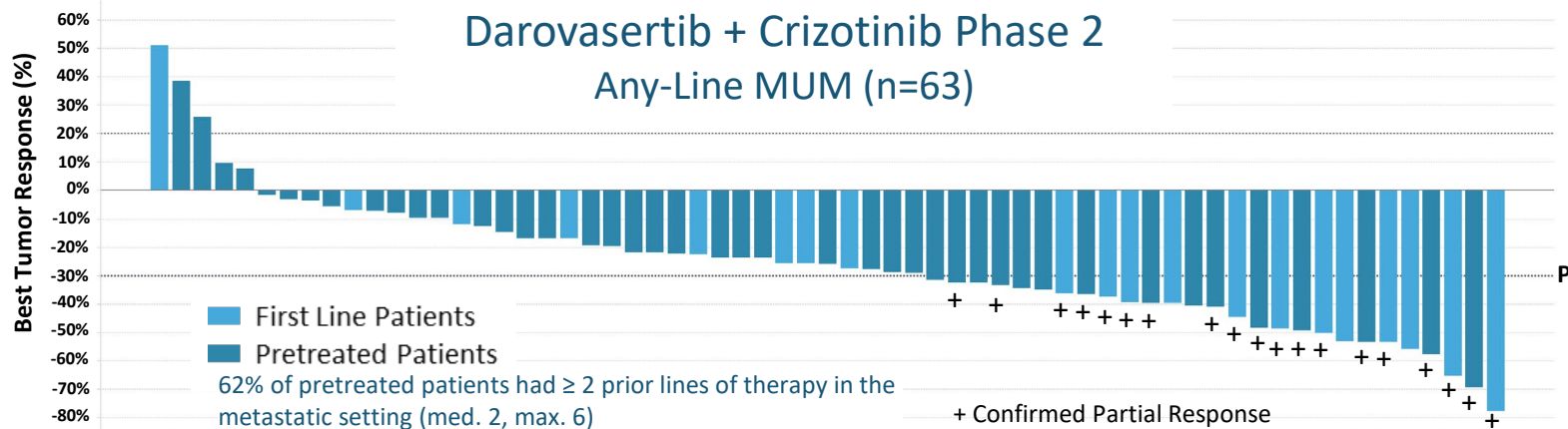
Daro + Crizo Phase 2 Efficacy: First-Line MUM and Any-Line MUM

Compelling Overall Response Rate (ORR) by RECIST 1.1 Observed



Confirmed 45% ORR and 90% DCR

Response by RECIST 1.1 First-Line MUM	Evaluable (N=20)
Confirmed ORR (9/20)	45%
Tumor Shrinkage (19/20)	95%
>30% Tumor Shrinkage (12/20)	60%
Best Overall Response	
cPR (9/20)	45%
SD (9/20)	45%
DCR (18/20)	90%

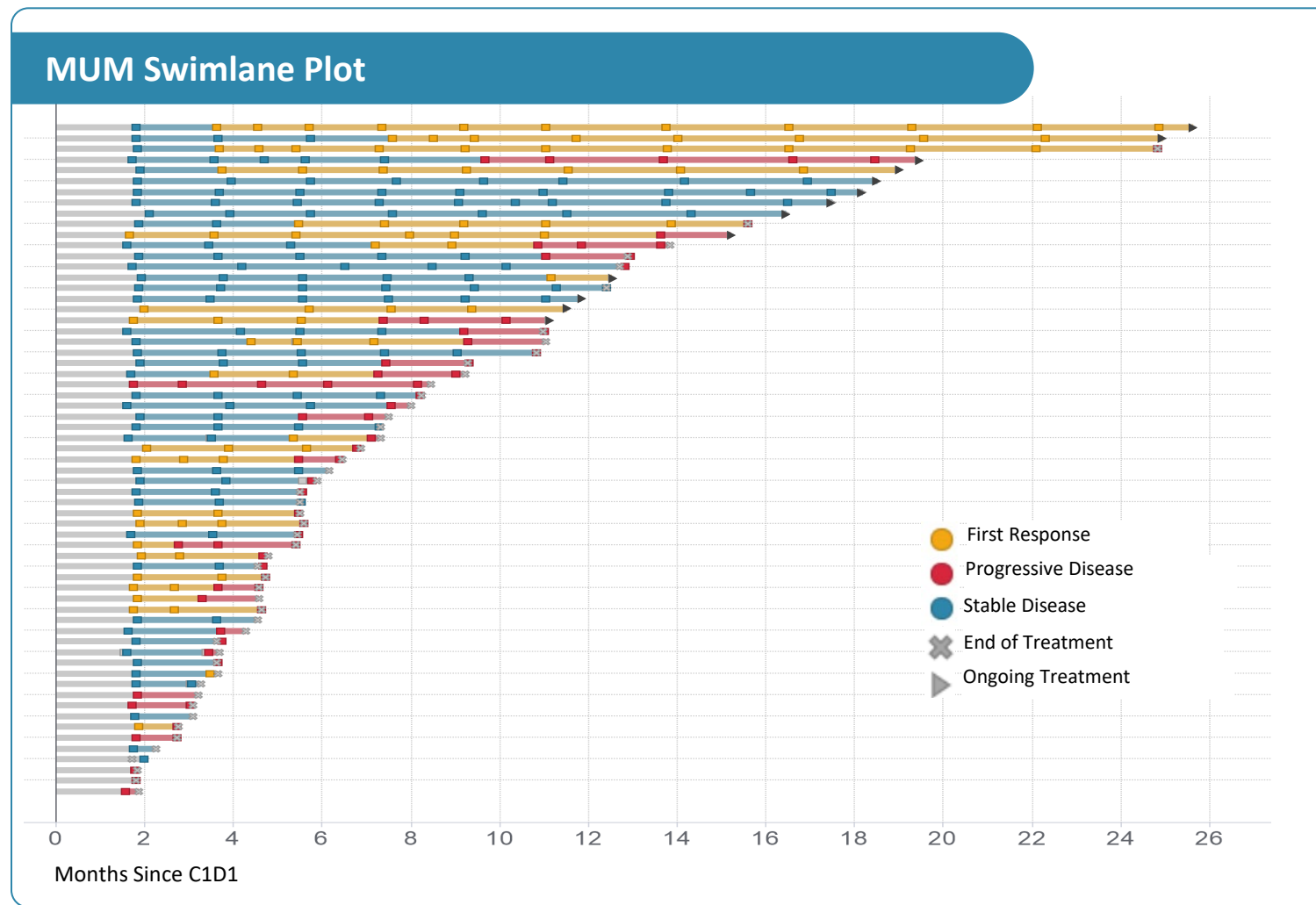


Confirmed 30% ORR and 89% DCR

Response by RECIST 1.1 Any-Line MUM	Evaluable (N=63)
Confirmed ORR (19/63)	30%
Tumor Shrinkage (58/63)	92%
>30% Tumor Shrinkage (27/63)	43%
Best Overall Response	
cPR (19/63)	30%
SD (37/63)	59%
DCR (56/63)	89%

Median PFS in First-Line, Any-Line and Hepatic-Only MUM

Observed Compelling Median Progression Free Survival with Encouraging Trend



Darovasertib + Crizotinib Phase 2

Median Progression Free Survival

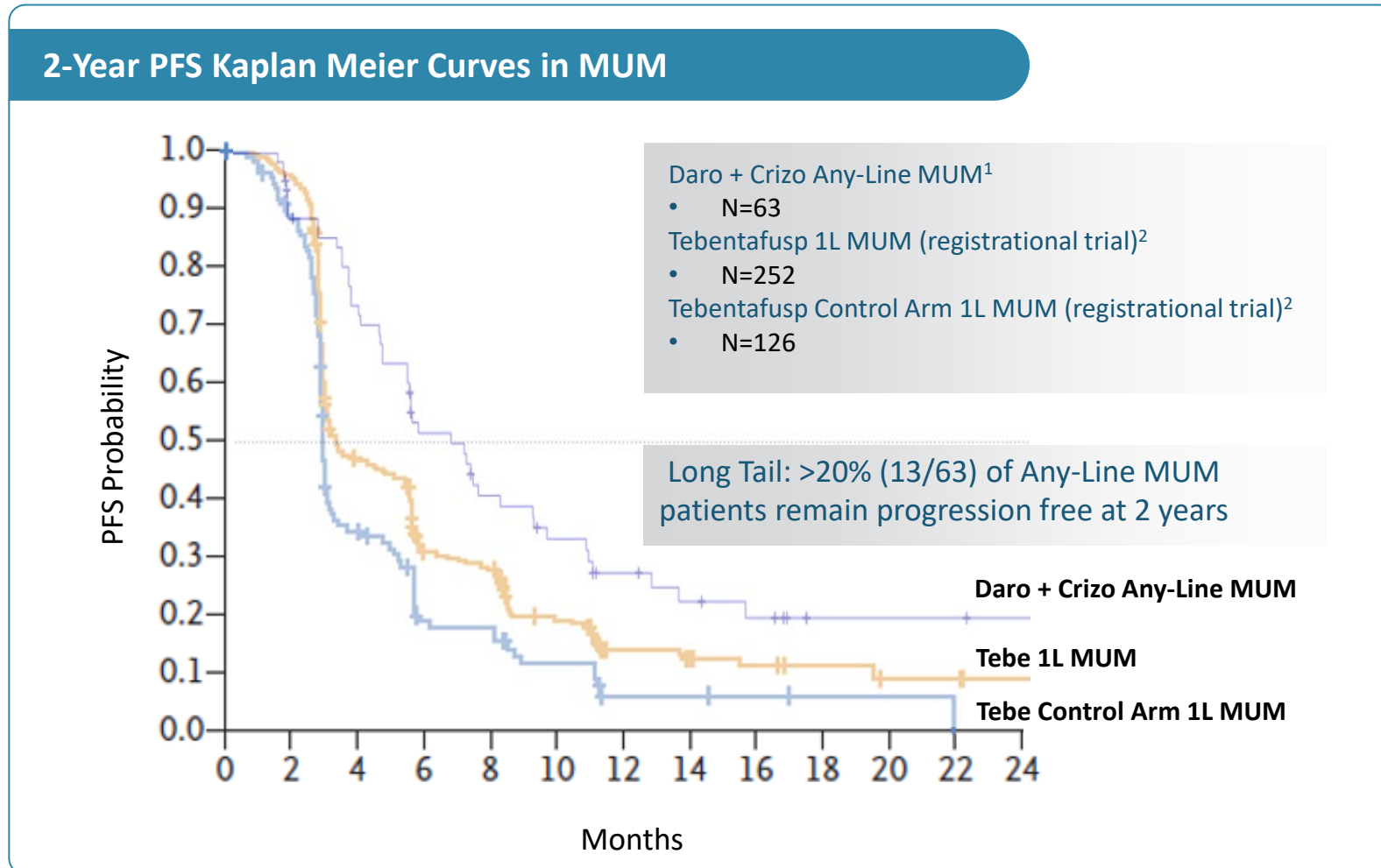
- First-Line (n=20): 7.1 months
- Any-Line (n=63): 6.8 months
- Hepatic-Only (n=19): 11.0 months

Treatment Duration – Observations

- ~50% of patients treated > 6 months
- ~30% of patients treated > 1 year

2-Year PFS Kaplan Meier (KM) Curve: Daro + Crizo in Any-Line MUM¹

Daro + Crizo Combo Observes a Promising 2-Year PFS KM Curve and a “Long Tail” Effect



(1) IDEAYA Data: preliminary analysis of unlocked database as of 08/22/2023 by investigator review, C1D1 cutoff as of 9/22/2022, based on 63 evaluable Any-Line MUM patients. Direct comparisons are not being made and the historical data for tebentafusp is being shared for informational purposes only

(2) N Engl J Med 2021;385:1196-206; Tebentafusp Phase 3 registrational trial, PFS curves

Darovasertib + Crizotinib Combination Clinical Summary in MUM

Highly Differentiated Clinical Efficacy & AE Profile Observed^{1, 2}

	Darovasertib + Crizotinib	Cabozantinib Mono / Crizotinib Mono	Selumetinib + DTIC	Ipi + Nivo	Tebentafusp
Target / Mechanism	PKC + cMET	cMET	MEK + Chemotherapy	CTLA4 + PD-1	HLA-A2-0201 Bi-Specific
Study Name(s)	NCT03947385	A091201 ³ / NCT05063058 ⁴	NCT01974752 ⁵	NCT02626962 ⁶	IMCgp100-102 ⁷
Population	1L/2L/3L+ MUM (n=63)	1L+ MUM (n=31) / 1L (n=6) 2L (n=1) MUM	1L+ MUM (n=97)	1L MUM (n=52)	2L+ MUM (n=127)
Patient Selection	NA	NA / MET Overexpression	NA	NA	HLA-A2-positive
Drug Form	Oral Tablets	Oral Capsules	Oral Capsules + chemo	IV infusion	IV Infusion (Weekly)
Tolerability (Grade ≥3 Drug-Related AE)	31%	51.6% / NA	63% (All Cause)	58%	46.5%
% of Patients with Tumor Shrinkage	First-Line = 95% / Any-Line = 92% / Hepatic Only = 100% ⁸	23% ⁹ / NA	35% ⁹	27% ⁹	44% ⁹
Confirmed ORR% (by RECIST 1.1)	First-Line = 45% / Any-Line = 30% / Hepatic Only = 37% ⁸	0% / 0%	3%	11.5% (not confirmed ORR)	4.7%
Median PFS	First-Line: 7.1 months / Any-Line: 6.8 months / Hepatic-Only: 11.0 months ⁸	2 months / NA	2.8 months	3 months	2.8 months

(1) Cross-trial comparisons are not based on head-to-head studies and are presented for informational purposes; no direct comparisons are being made

(2) ESMO 2022: Dimitriou, F, et. al: IPI + Nivo Combo in HLA-A2-0201 MUM reports ~6% ORR (2 PRs out of 33 patients)

(3) Randomized Phase II Trial and Tumor Mutational Spectrum Analysis from Cabozantinib versus Chemotherapy in Metastatic Uveal Melanoma (Alliance A091201); Clin Cancer Res 2020;26:804–11

(4) European Journal of Cancer, Leyraz, et. al, 2022; 146-155

(5) Journal of Clinical Oncology, Carjaval, et. al, 2018; 1232-1239

(6) ASCO 2021, Piulats, J, et. al, Ipi = Ipilimumab, Nivo = Nivolumab, ORR% did not require PR/CR confirmation

(7) Based on Immunocore reported 2L+ study data (to reflect comparative patient population) and by independent review and ORR% was with confirmed PRs

(8) ESMO 2023 Proffered Presentation McKean, M, et al: Preliminary analysis of unlocked database as of 08/22/2023 by investigator review; data cutoff based on treatment Day 1 of Cycle 1 (C1D1) as of 9/22/2022

(9) Estimated from Waterfall plot

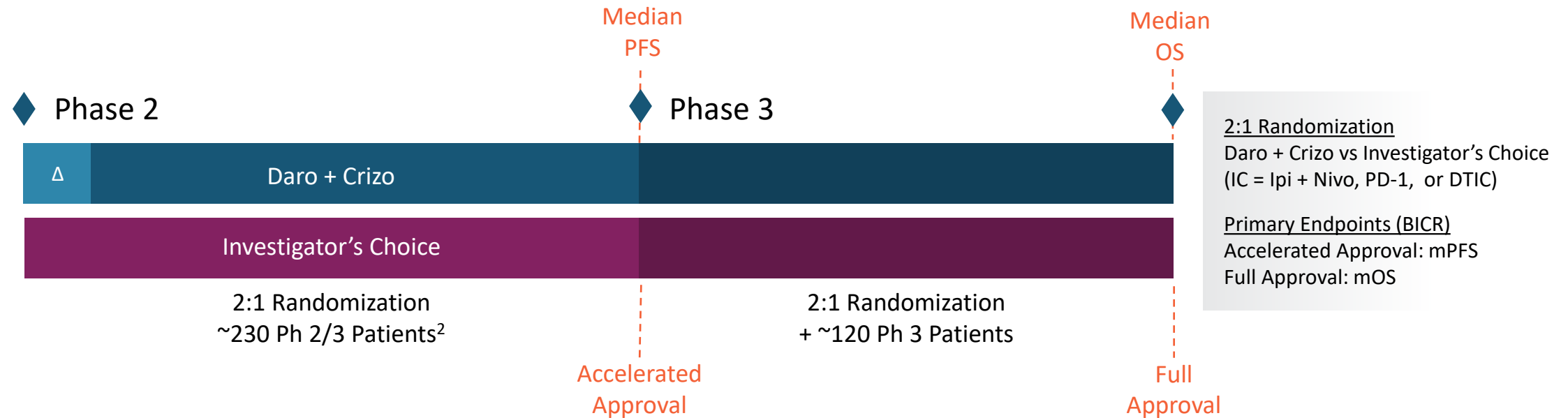
Accelerated Approval Trial Design in First-Line HLA-A2 Negative MUM

FDA Guided Design: Open Label Ph2/3 Evaluation of Daro + Crizo vs. Investigator's Choice¹

FDA Project FrontRunner: Target First-Line approval strategy to enhance patient benefit in MUM

FDA Accelerated Approval: Address unmet need in MUM, which has limited effective treatment options

Integrated Phase 2/3 Study within Study Enables Potential Accelerated Approval & Full Approval



FDA Fast Track and EMA SME Status Designation for Daro + Crizo in MUM

(1) Clinicaltrials.gov: NCT05987332

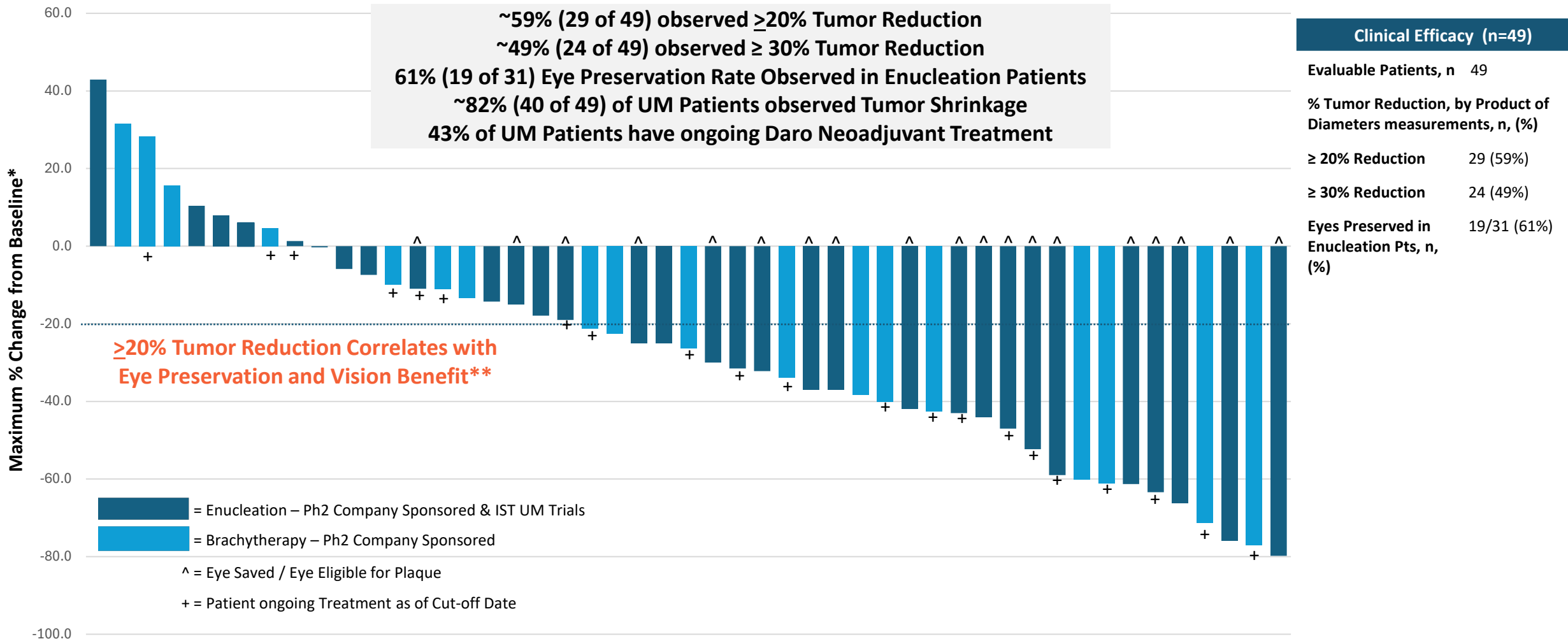
(2) Phase 2 study contemplates data set of n=200 patients randomized 2:1 with treatment arm at move forward dose in support of potential accelerated approval based on mPFS

^Δ Nested study to confirm move forward dose: (i) Daro 300 mg BID + Crizo 200 mg BID or (ii) Daro 200 mg BID + Crizo 200 mg BID

Daro = Darovasertib, Crizo = Crizotinib, MUM = Metastatic Uveal Melanoma, HLA-A2 = HLA-A2*02:01 Serotype, IC = Investigator's Choice, Ipi = Ipilimumab, Nivo = Nivolumab, DTIC = Dacarbazine

Darovasertib Neoadjuvant Therapy: Ph2 Company Sponsored & Ph2 IST UM Trials

61% (19 of 31) Observed Eye Preservation and 49% (24 of 49) with $\geq 30\%$ Tumor Reduction*



IDEAYA Data: Enrollment cut-off date of 13May24, and results as of 15Aug2024 (based on preliminary analysis of unlocked database for Ph2 company sponsored patients enrolled up to 13May2024); Ph2 IST as of 14May2024 [ASCO 2024 Oral Presentation]

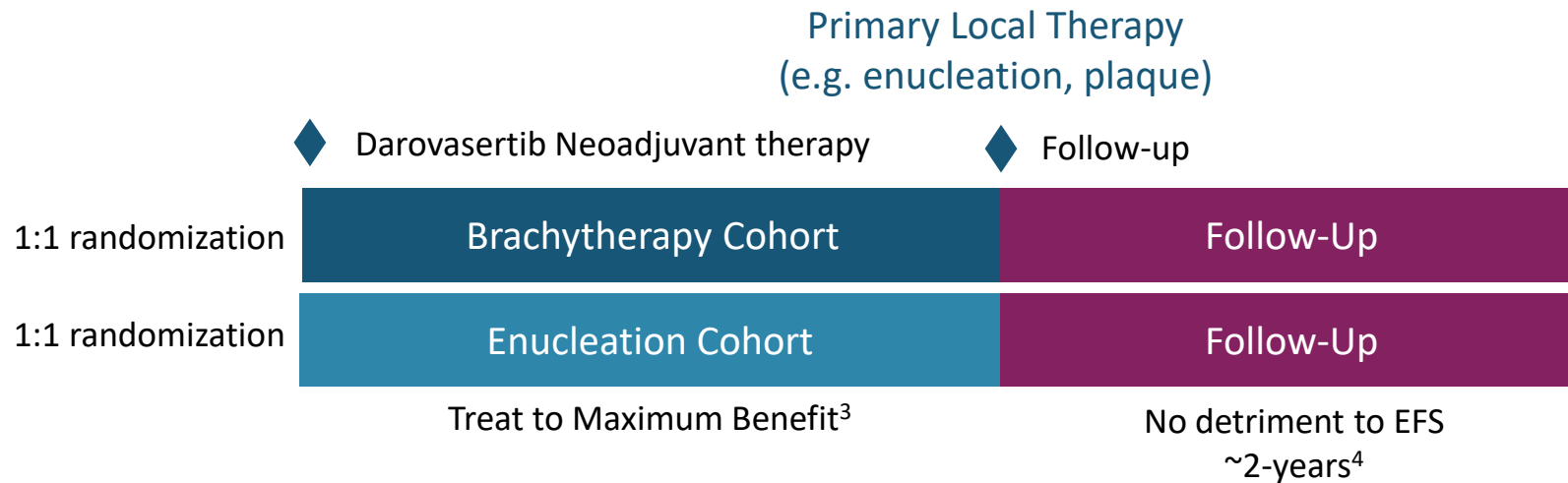
*Ocular tumor size measured by the product of diameters (longest basal diameter x tumor thickness); **Based on clinical data correlating ocular tumor shrinkage with eye preservation and vision from darovasertib treatment in UM. Clinical data provided

in FDA briefing book for FDA Type C meeting

IST = Investigator Sponsored Trial

Preliminary Darovasertib Neoadjuvant UM Phase 3 Trial Design¹

Paradigm Shifting Opportunity to Save the Eye and Protect Vision



Primary Endpoints²

- Cohort 1: Time to Vision Loss
- Cohort 2: Eye Preservation

Secondary Endpoints

- Cohort 1 and 2: No detriment to Event Free Survival (EFS). Initial EFS readout anticipated in ~2-years

FDA discussion ongoing for use of ORR as potential surrogate and composite endpoint for earlier approval scenarios

Three Independent Approaches for Demonstrating Clinical Benefit With Approval Pathway

Enucleation Cohort → Save the Eye

Brachytherapy Cohort → Protect Vision

Follow-up → No detriment to EFS

(1) Protocol finalization pending FDA Type B meeting

(2) FDA briefing book notes clinical endpoint target to exceed a lower bound of 10% for eye preservation rate with a 95% confidence interval

(3) Treatment to maximum benefit: continued observation of ocular tumor shrinkage

(4) Estimate of initial no detriment EFS readout of UM patients with high risk of metastatic disease

Darovasertib and Uveal Melanoma Patient Journey

High Unmet Need and Multiple First-Line Opportunities in UM and MUM¹

+95% of UM patients harbor GNAQ/GNA11 mutation

Uveal Melanoma Patient Journey					
	Neoadjuvant UM		Adjuvant UM	MUM	
HLA-A2-Negative (~70% of UM / MUM) ²	No FDA Approved Therapies ¹	Daro Phase 2/3 Enucleation Define Approval Path	Daro Phase 2	No FDA Approved Therapies ¹	Daro + Crizo Registrational Trial Accelerated Approval Full Approval
HLA-A2-Positive (~30% of UM / MUM) ²					Daro + Crizo Target NCCN / Compendia Listing
Target Treatment Duration	≥6 months		≥6 months	mPFS + ~3 months	
Target Clinical Endpoints	Eye Preservation, Time to Vision Loss, No detriment to EFS		Relapse Free Survival	ORR, mPFS, mOS	
Annual Incidence ³	~12K		~12K	~4-5k	

**FDA Orphan Drug Designation in Uveal Melanoma⁴; FDA Fast Track Designation in Metastatic Uveal Melanoma
Phase 2/3 Registrational Trial Ongoing in HLA-A2 negative 1L MUM for both Accelerated and Full Approval**

(1) No FDA approved systemic therapies in multiple UM and MUM indications across the patient journey

(2) IDEAYA data: ~70% of MUM patients were HLA-A2-negative based on 149 patients tested for HLA-A2 status as presented at ESMO 2023

(3) Annual incidence for North America, Europe and Australia (as applicable), based on market research analysis

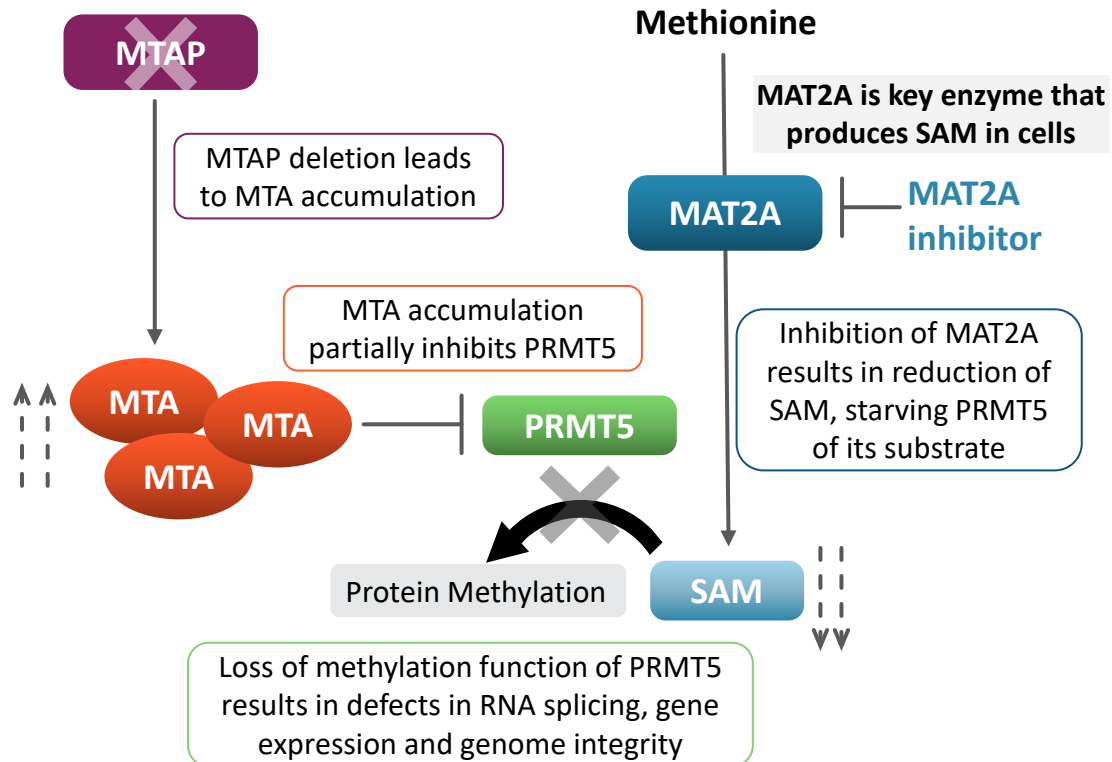
(4) Orphan Drugs benefit from certain tax credits and may be excluded from certain mandatory price negotiation provisions of the 2022 Inflation Reduction Act

UM = Uveal Melanoma, MUM = Metastatic Uveal Melanoma, ORR = Overall Response Rate, mPFS = Median Progression Free Survival, mOS = Median Overall Survival

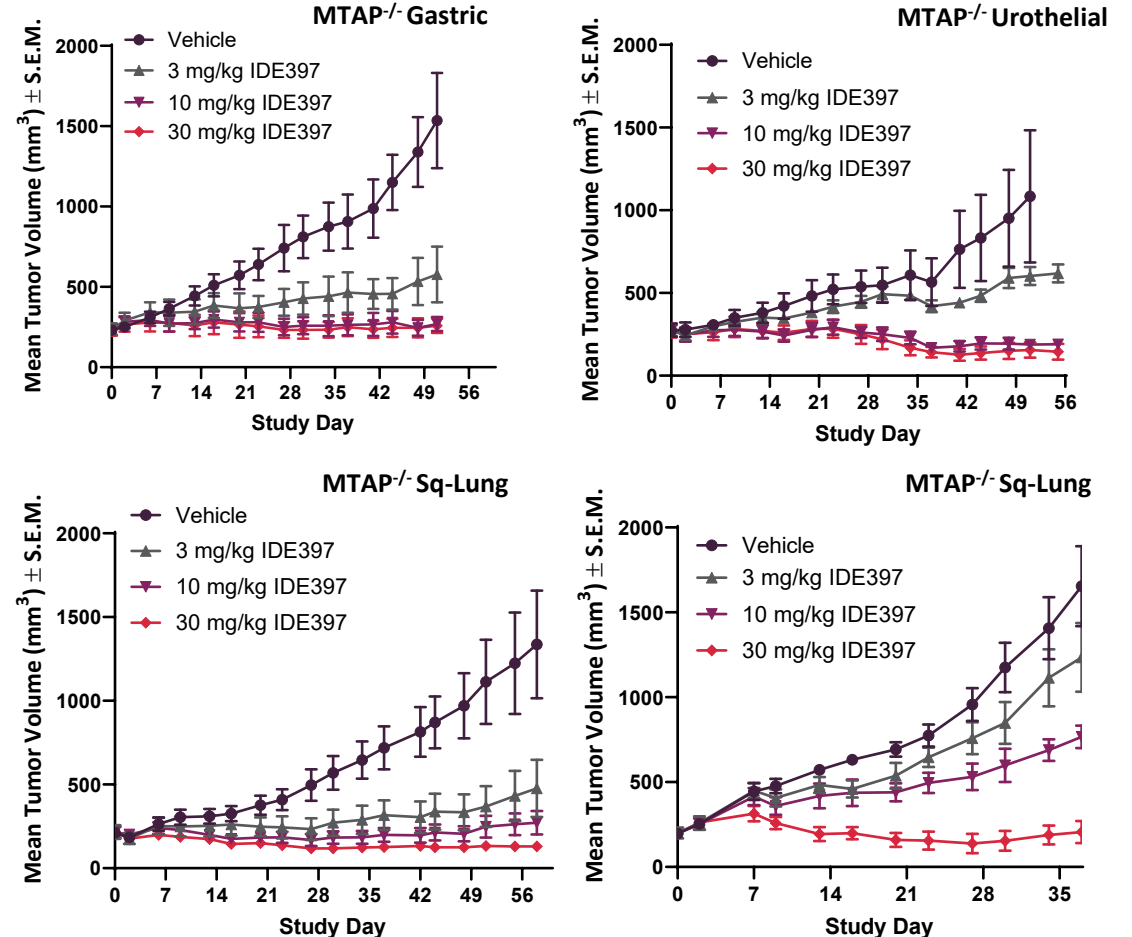
MAT2A Inhibition is Synthetic Lethal with MTAP-Deletion

Strategies to address MTAP^{-/-} Prevalence in ~15% of all Solid Tumors

MTAP-MAT2A Synthetic Lethality Biology



Robust monotherapy activity in lung, urothelial and gastric PDX

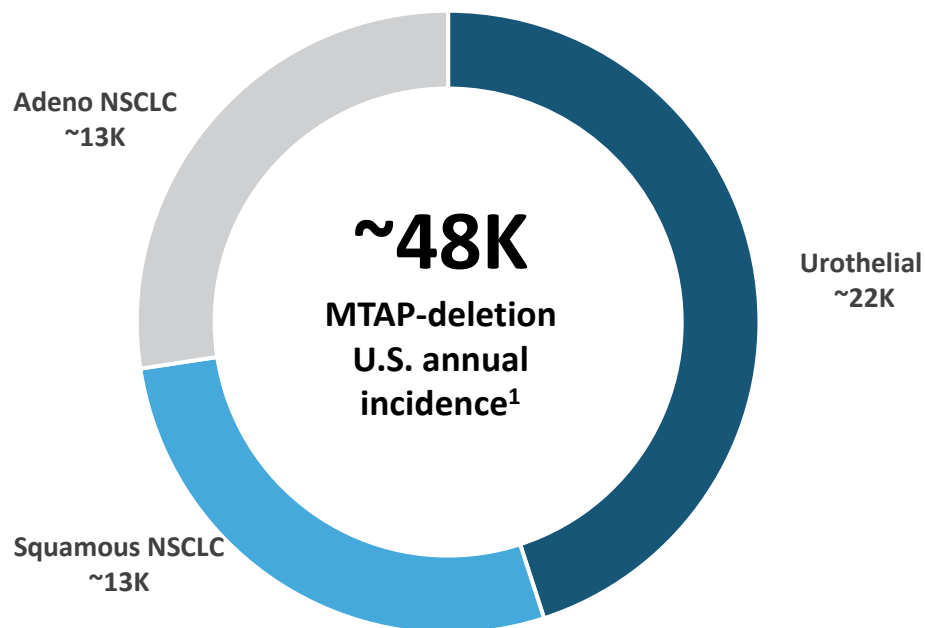


IDE397: Phase 2 Potential First-in-Class MAT2A Inhibitor

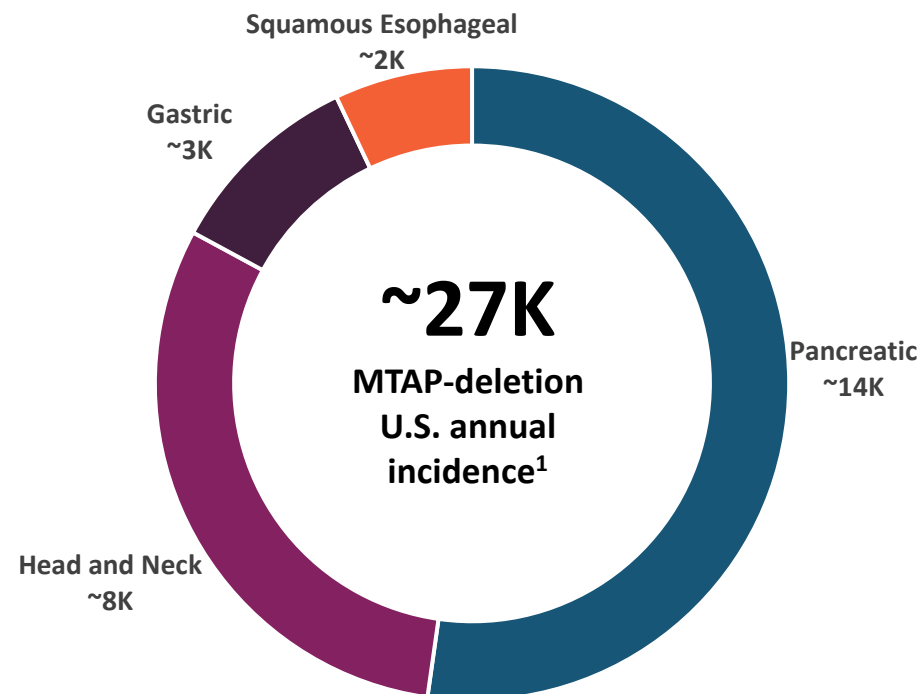
~48k U.S. Annual Incidence in MTAP-Deletion NSCLC and Urothelial Cancer

High Unmet Need: No FDA-Approved Therapies for MTAP-Deletion Solid Tumors

U.S. Annual Incidence in Priority Tumor Types



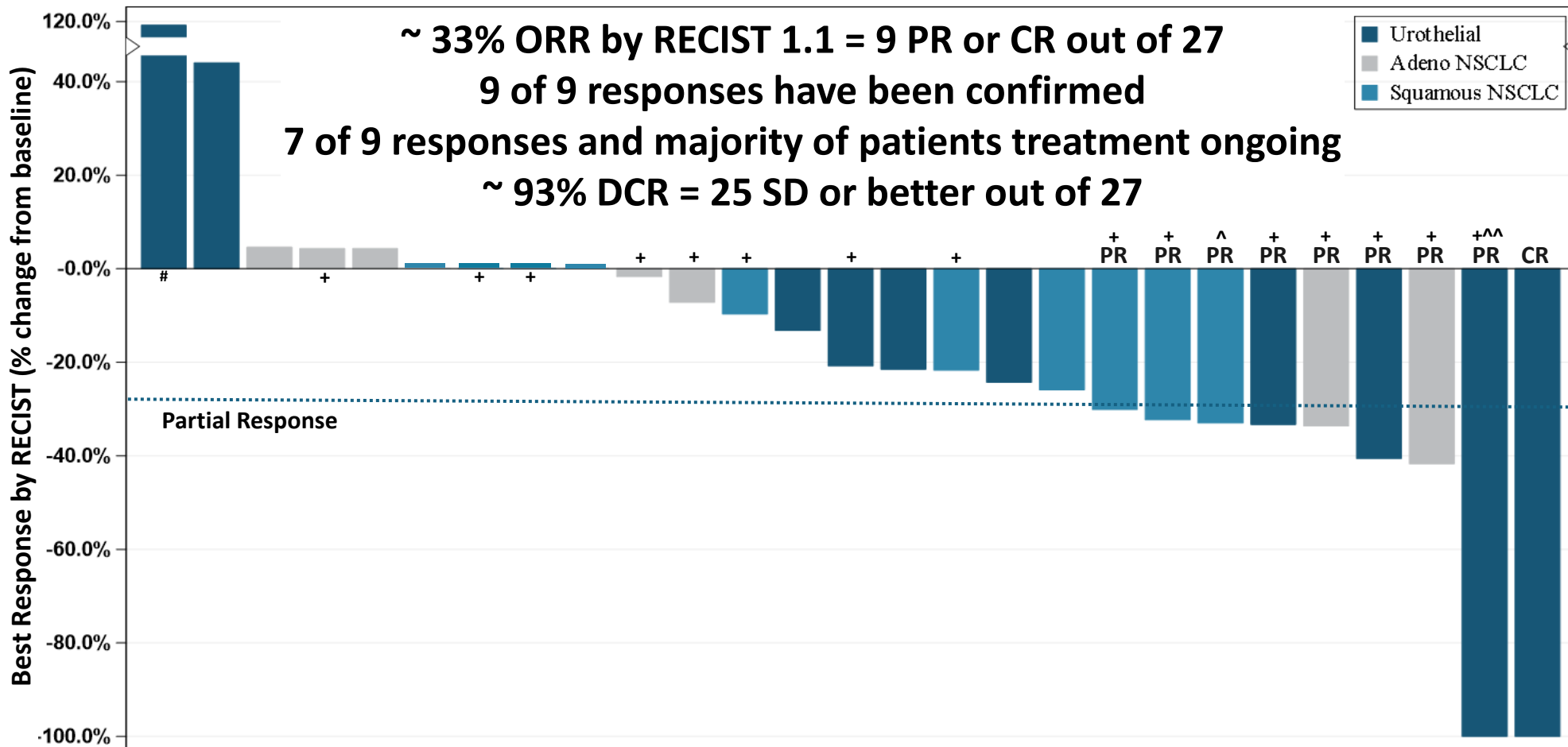
U.S. Annual Incidence in Potential Expansion Tumor Types



(1) Estimated addressable patient population based on SEER 2024 incidence and MTAP-deletion frequency from TCGA PanCancer Atlas, including frequency of 26% in urothelial, 19% in squamous NSCLC, 11% in adeno NSCLC, 21% pancreatic, 14% head and neck, 10% gastric, and 28% squamous esophageal cancers.
NSCLC = Non-Small Cell Lung Cancer

IDE397 Phase 1 Clinical Efficacy in MTAP-Deletion NSCLC & UC

Best Response by RECIST 1.1 at 30mg QD Phase 2 expansion dose¹



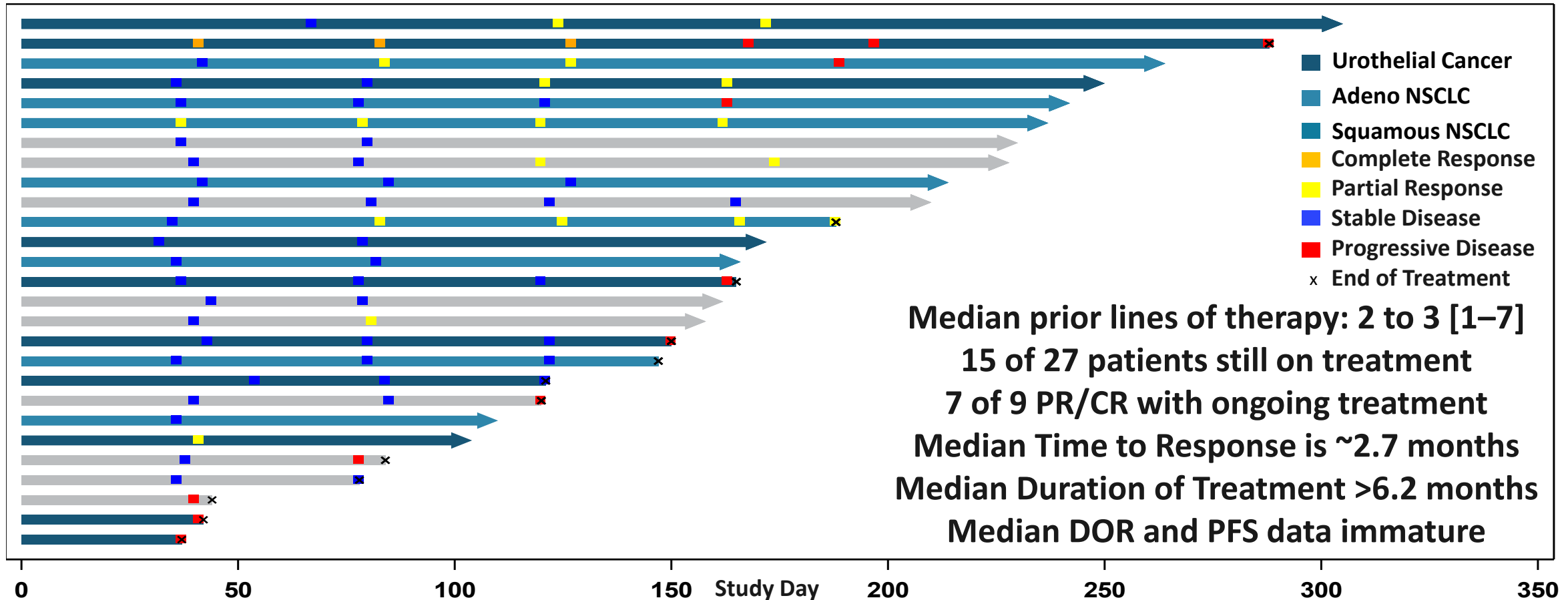
Efficacy by RECIST 1.1 ¹	
Evaluable Pts	27
Best Response, n (%)	
CR	1 (4)
PR	8 (30)
SD	16 (59)
PD	2 (7)
ORR, n (%)	9 (33)
Confirmed, n ^{^^}	9
ORR, n (%), by Tumor (n)	
Squam NSCLC (8)	3 (38)
Adeno NSCLC (9)	2 (22)
Urothelial (10)	4 (40)
DCR, n (%)	25 (93)

(1) Evaluable Patients: Treated with ≥1 cycle (21 days) of IDE397 at the 30 mg expansion dose and with ≥1 post-baseline scan(s); # Patient received less than 75% of planned dosing prior to the first scan due to unrelated AEs in cycle 2; ^ Response evaluation by central review; ^^ PR with -100% best response had complete resolution of the target lesion; + patient still on treatment as of cut-off date. Data from an unlocked, unverified database as of 22AUG2024 data cut off; two patients confirmed response after the data cut. CR = Complete Response, PR = Partial Response, SD = Stable Disease, PD = Progressive Disease, ORR = Overall Response Rate, DCR = Disease Control Rate, c = Confirmed, NSCLC = Non-Small Cell Lung Cancer, UC = Urothelial Carcinoma, Squam = Squamous, Adeno = Adenocarcinoma, Pts = patients

IDE397 Phase 1 Clinical Efficacy in MTAP-Deletion NSCLC & UC

Time on treatment at 30mg QD Ph2 Expansion Dose

NSCLC & Urothelial Cancer Efficacy Evaluable Patients Treated at 30 mg (n=27)¹



(1) Evaluable Patients: Treated with ≥ 1 cycle (21 days) of IDE397 at 30 mg expansion dose and with ≥ 1 post-baseline scan(s). Data from an unlocked, unverified database as of 22AUG2024 data cut off. The confirmed complete response urothelial patient progressed after the week 18 scan due to a drug-unrelated AE dose holiday and then restarted treatment. Two patients confirmed response after the data cut. PFS = Progression Free Survival, DOR = Duration of Response

IDE397 Confirmed CR by RECIST 1.1 in UC Patient With MTAP-Deletion

Case Report and CT-Scan Images

Baseline Characteristics:

60+ years old male urothelial carcinoma

Treatment History:

- Neo-adjuvant cisplatin/gemcitabine
- Left nephro-ureterectomy
- Adjuvant Nivolumab

Recurrent disease while on adjuvant immunotherapy

RECIST 1.1 Evaluation:

CR by RECIST 1.1 at week 6 and confirmed at week 12

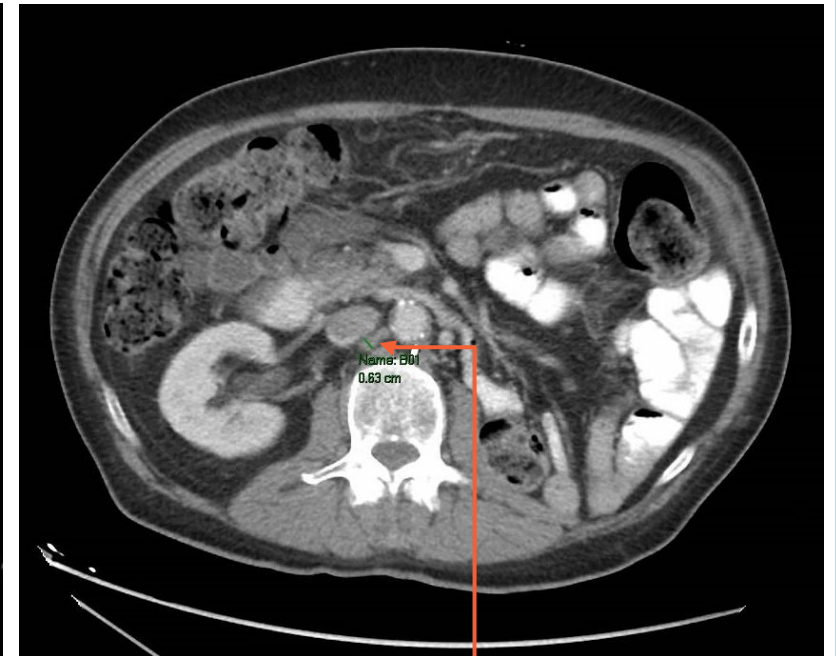
Urothelial Carcinoma with MTAP-Deletion: Maintained CR at Week 18

Baseline



Enlarged Retrocaval Lymph Node, 1.5 cm short axis

Week 18



Maintained Complete Response at week 18 scan

IDE397 + Sacituzumab Govitecan Confirmed PR by RECIST 1.1 in Urothelial with MTAP-Deletion and FGFR3-TACC3 Fusion

Case Report and CT-Scan Images

Baseline Characteristics:

60+ years old male with Urothelial Cancer and MTAP-deletion and FGFR-TACC3 fusion

Treatment History:

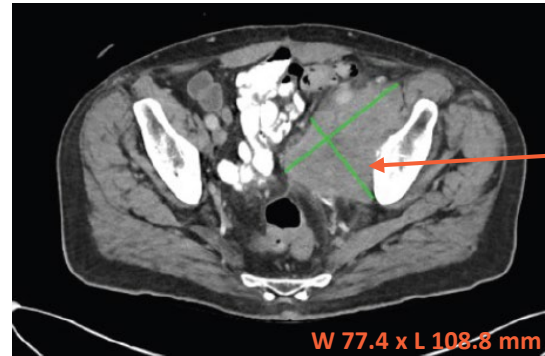
- Transurethral resection
- Best response of PD to Enfortumab Vedotin (EV) + Pembrolizumab, and Erdafitinib

Clinical Evaluation:

PR by RECIST 1.1 at week 12, and confirmation at next scan with treatment ongoing

Urothelial Cancer MTAP-Deletion Patient: PR at Week 12 CT-Scan

Baseline



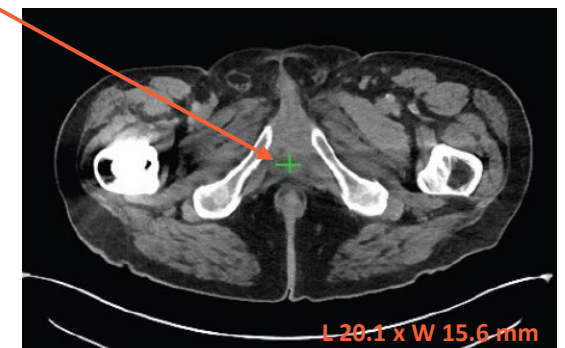
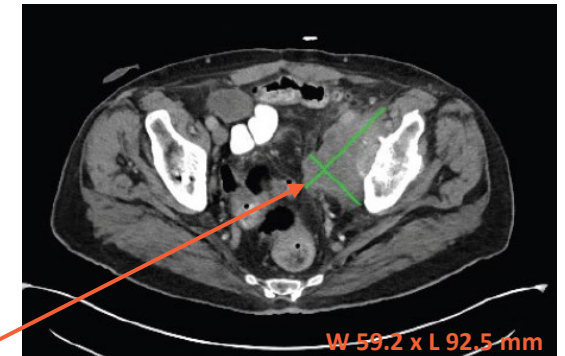
Enlarged Left Iliac Lymph Node



Partial Response (-31%)

Central Perineal/Periuethral Soft Tissue Mass

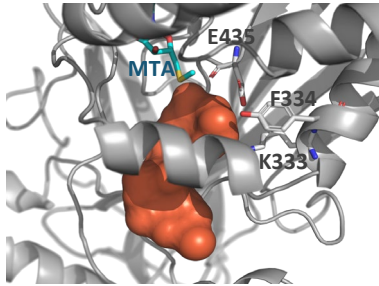
Week 12



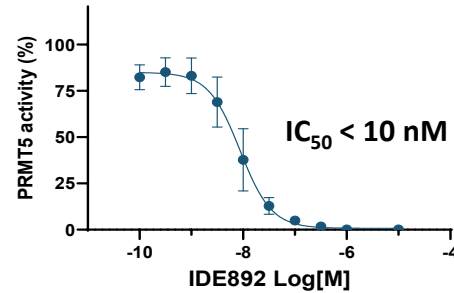
IDE892 DC: Potential Best-in-Class MTA-Cooperative PRMT5 Inhibitor

Target to Enable Wholly-Owned Clinical Combo with IDE397/MAT2A in H2 2025¹

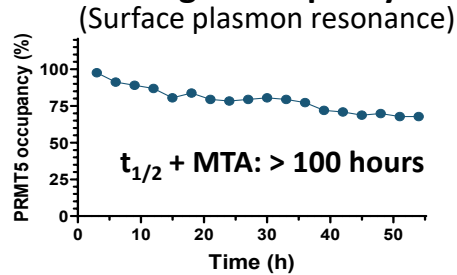
MTA-templated target binding



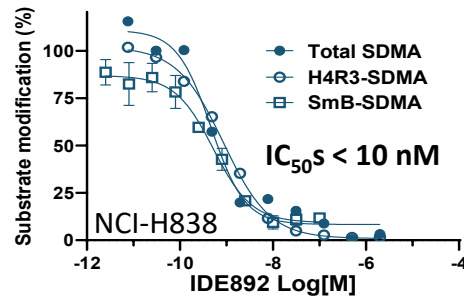
Potent biochemical inhibition



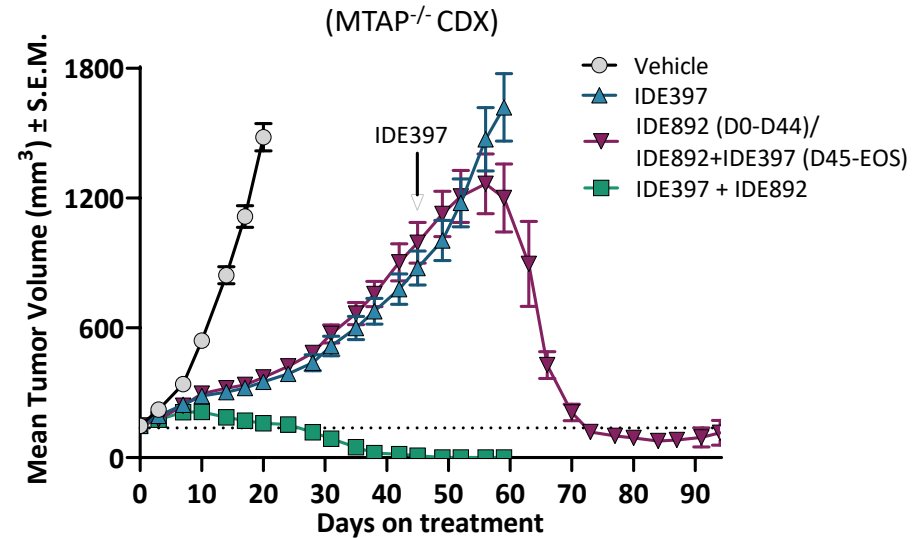
Persistent MTA-dependent target occupancy



Robust pathway modulation

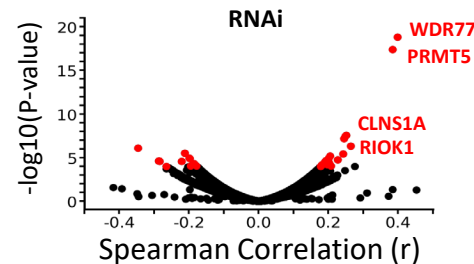
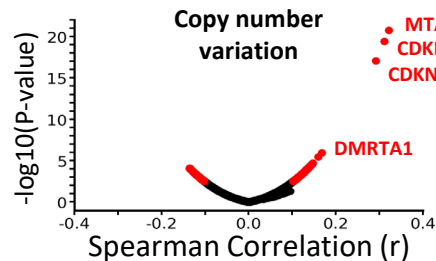


Exceptional IDE397 combination benefit

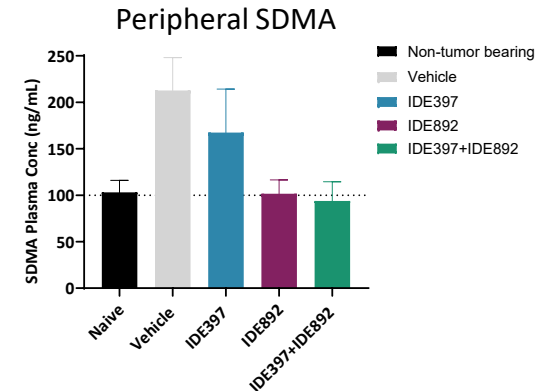


MTAP^{-/-}-specific cell killing

Correlation of Cell Features and IDE892 AUC across >800 cancer cell lines



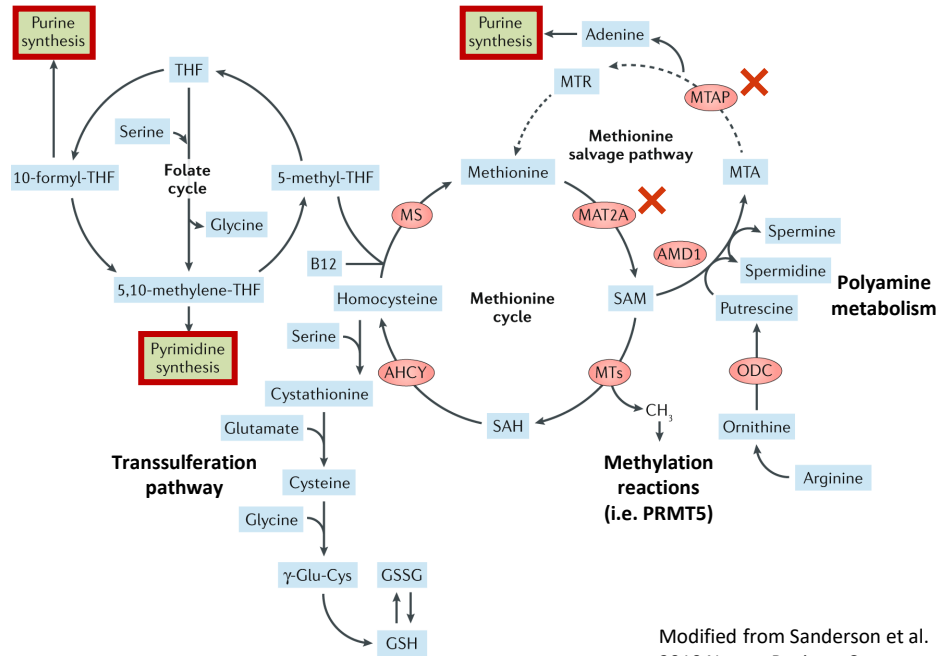
Pathway sparing in normal tissue



TRODELVY® + IDE397 Combination in MTAP-Deletion Urothelial Cancer

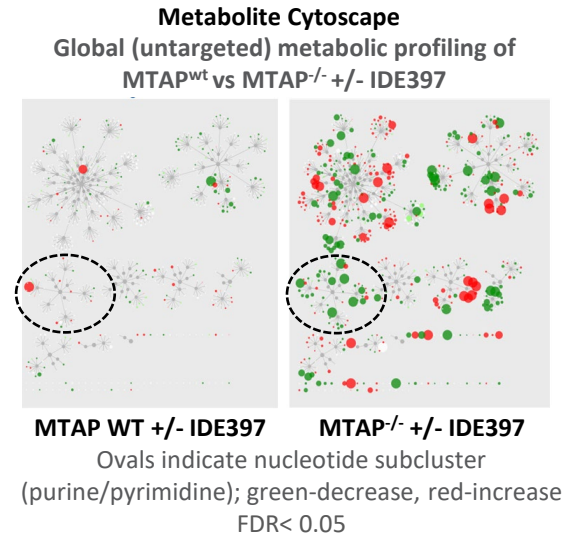
Disordered methionine metabolism underpins IDE397 combination opportunity with TOP1i-based ADC

IDE397 perturbs both nucleotide pools and mRNA splicing in MTAP^{-/-} cells

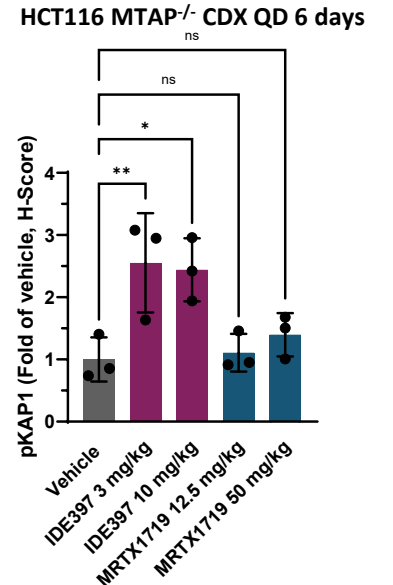


Modified from Sanderson et al. 2019 Nature Reviews Cancer

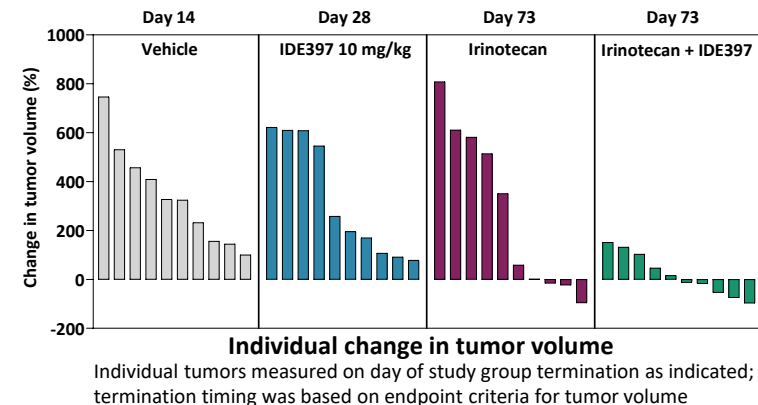
Metabolic perturbation by IDE397 selectively interacts with MTAP



IDE397 provokes DDR response in vivo



TOP1i combination delivers durable benefit in challenging RT112/84 UC CDX model



Key clinical correlates underscore combination opportunity

- MTAP^{-/-} UC: shorter survival, lower RR to CPI, shorter PFS and OS with Enfortumab-Vedotin (EV)
- MTAP^{-/-} status is associated with pemetrexed antitumor activity in UC
- A small study evaluating Trodelvy activity in UC post-EV suggested preferential activity in MTAP^{-/-} tumors (RR 50% vs. 19% post EV)
- IDE397 demonstrated monotherapy efficacy in MTAP^{-/-} UC (CR observed in a patient with short DFI post platinum and CPI, other tumor reductions and molecular responses seen)

IDE397 Phase 1/2 Clinical Development Plan in MTAP-Deletion Solid Tumors

Clinical Strategic Focus on High Conviction Rational Combinations

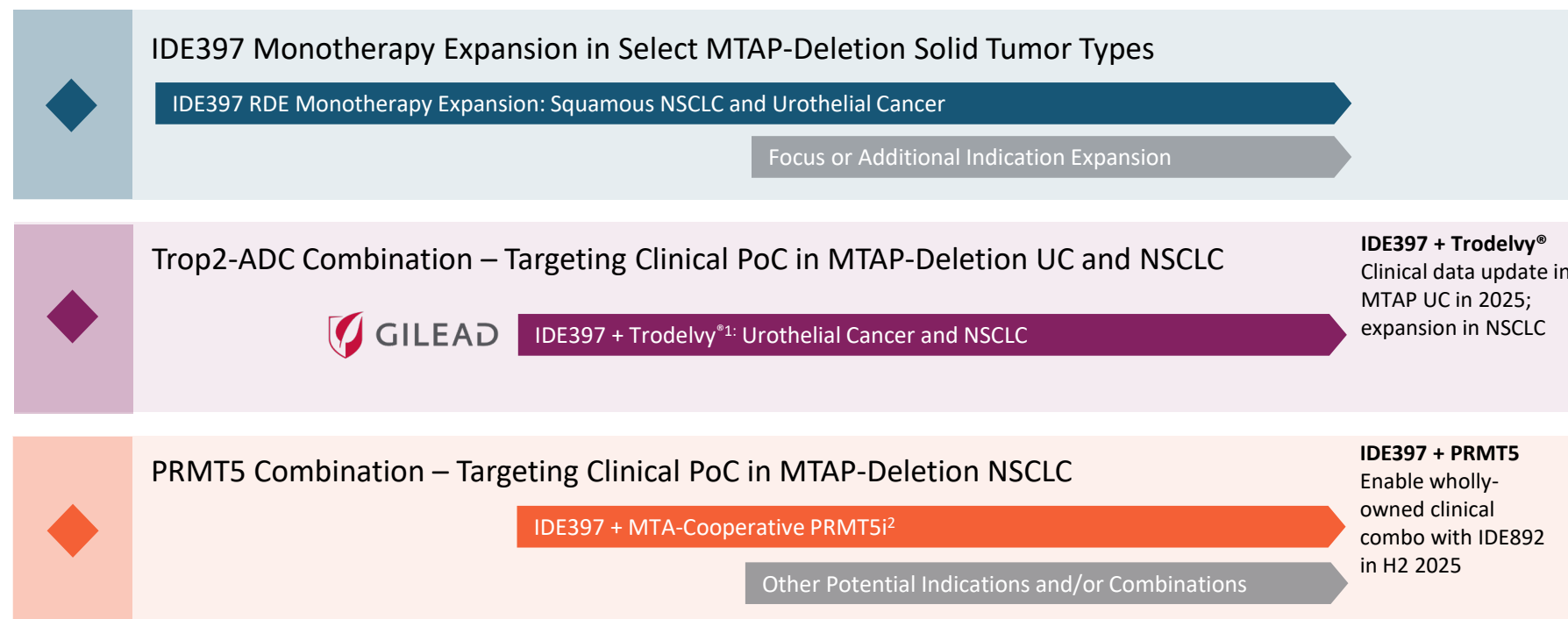
IDE397 – Clinical Profile

Exposure-Dependent
Pharmacokinetic (PK) Profile with
low $C_{max}:C_{min}$

Robust Pharmacodynamic (PD)
Response observed

Monotherapy Expansion
demonstrated clinical efficacy
with Responses in Multiple High-
Priority Tumor Types in Dose
Expansion, including a Complete
Response

IDE397 is strategically well positioned to evaluate both monotherapy and clinical combinations in MTAP-deletion solid tumors



(1) Trodelvy[®] = Gilead's Trop-2 directed ADC
(2) UC = Urothelial Cancer
(3) IDE892, IDEAYA PRMT5 inhibitor in IND-enabling studies

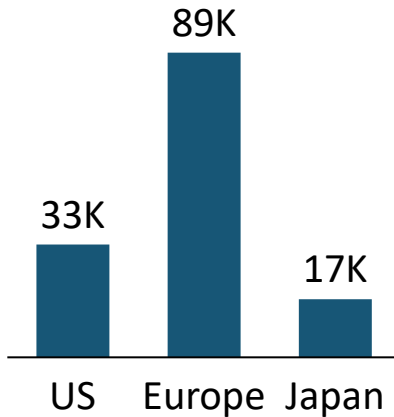
IDE849 (SHR-4849): Phase 1 DLL3 TOP1i ADC

First-in-Class Potential and Targeting Lineage Survival Oncogene Activity

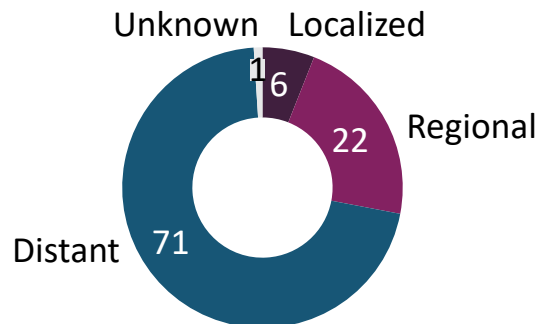
Significant unmet need in Small Cell Lung Cancer (SCLC)

Annual SCLC Patients¹ (2025)

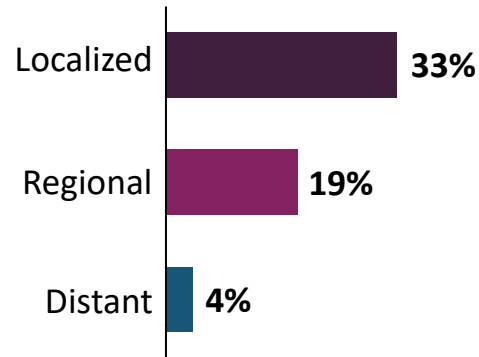
~15% of Lung Cancer (85% DLL3+)
 (~350k Global Annual Incidence)



Stage at Diagnosis (%)



5 Year Survival

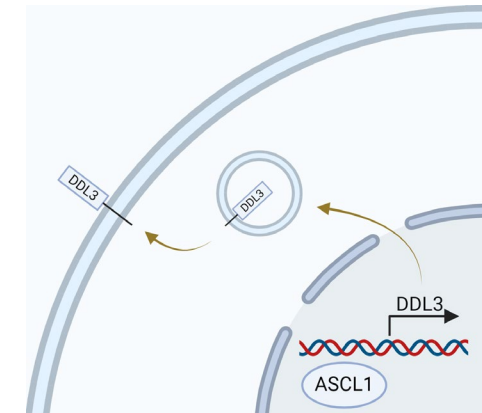
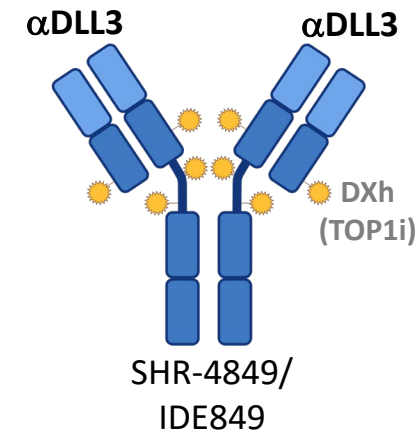


NETs

Neuroendocrine tumors (NET) secondary population with >100,000 patients¹ in US, Europe, Japan. 31-34% DLL3+

IDE849 (SHR-4849) potential first-in-class/best-in-class

The SCLC lineage survival oncogene, ASCL1, directly promotes DLL3 expression



- DLL3 expression driven by the tumor-essential ASCL1 TF
- Humanized antibody with strong affinity and high selectivity
- Proprietary TOP1i payload (~4,000 patients treated)
- Internalization-dependent cleavable linker
- Optimized DAR value of 8
- High plasma stability
- 120X estimated therapeutic index

(1) Incidence plus newly recurrent.

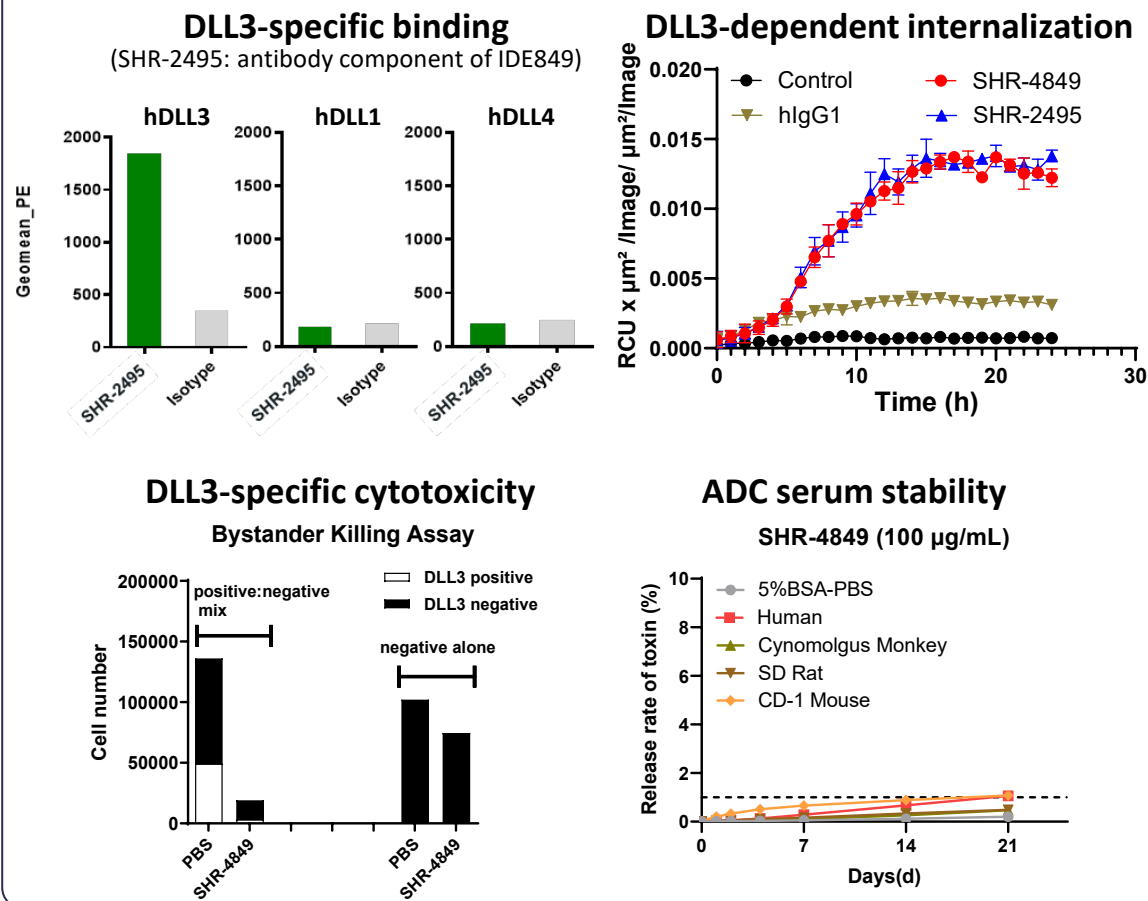
Sources: WHO Globocan 2022, SEER, Rojo, F., at al., Lung Cancer. 2020;147:237-243; Tanaka, K., at al., Lung Cancer. 2018 Jan;115:116-120; Yao, J., at al., The Oncologist, 2022, 27, 940-951; Ali, G., at al., Front. Oncol. 11:729765; Song, H., at al., Exp Ther Med 16: 53-60, 2018, Ideaya Commercial Analysis, 2024 AACR. Abstract 3146/27

DLL3 = Delta-Like Ligand 3, ADC = Antibody Drug Conjugate, TOP1i = Topoisomerase I Inhibitor, DAR = Drug-to-Antibody Ratio, TF = Transcription Factor

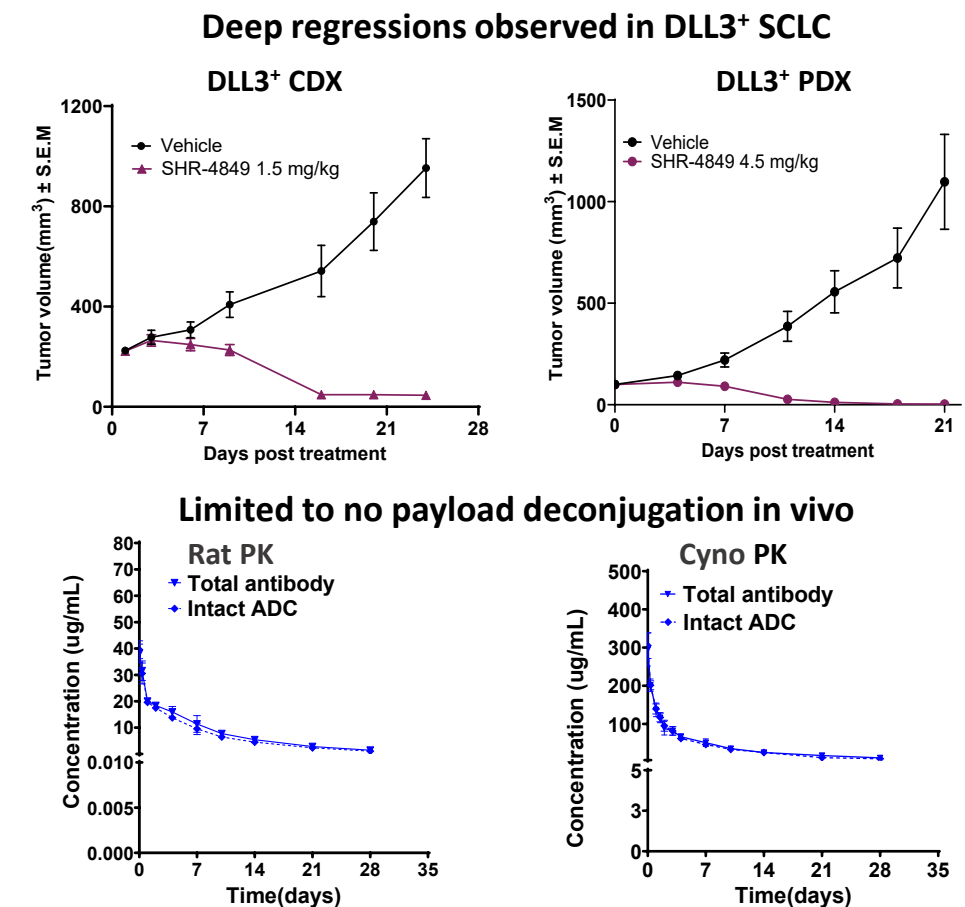
IDE849 (SHR-4849): Well-tolerated Robust Antitumor Activity in DLL3⁺ SCLC

DLL3-Specific Tumor Cell binding, Internalization and Payload Release

SHR-4849 displays DLL3-specific tumor cell binding, internalization and payload release



Deep regressions in DLL3⁺ CDX/PDX with exceptional linker/payload stability in circulation



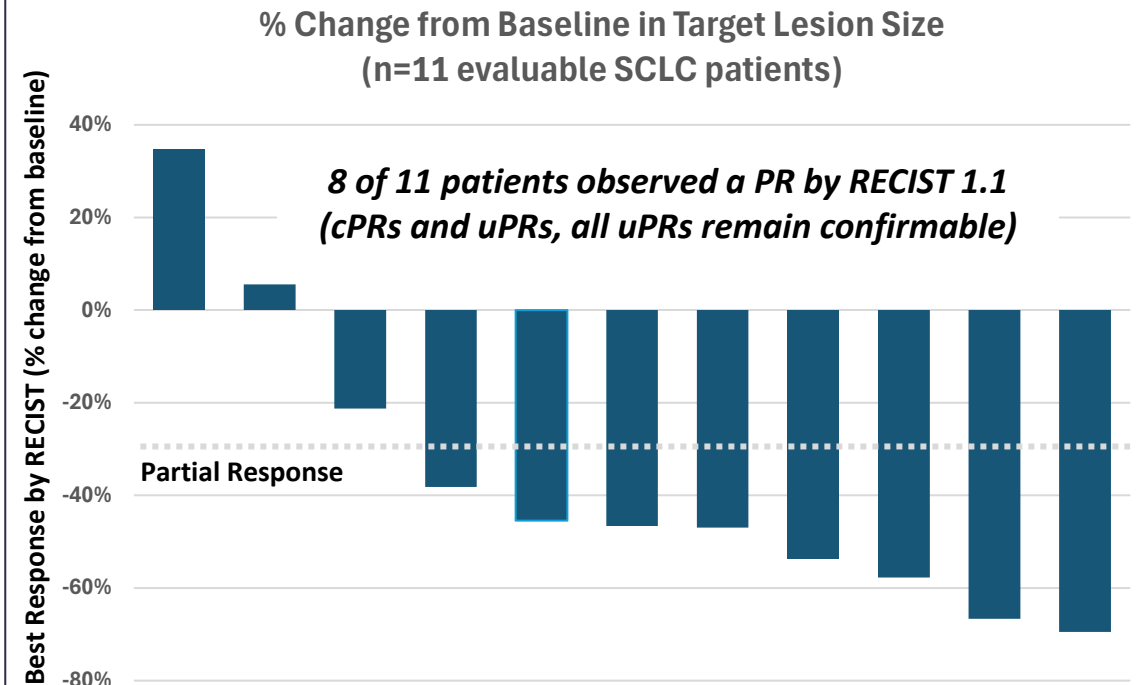
IDE849 (SHR-4849): Potential First-in-Class with Preliminary Ph1 Clinical PoC

Phase 1 FIH Study of DLL3 Topo-1-Payload ADC in Pre-Treated SCLC Patients

Phase 1 Dose Escalation in China in Pre-Treated SCLC Patients¹

- **Preliminary Clinical PK Summary**
 - Dose dependent increase in exposure
 - Promising T-Ab to ADC ratio
- **Preliminary Clinical Efficacy Summary²**
 - 8 of 11 evaluable SCLC patients observed a partial response by RECIST 1.1, resulting in a ~73% ORR (confirmed and unconfirmed, all unconfirmed PRs remain confirmable)
- **Preliminary Clinical Safety Summary**
 - TRAEs were largely Grade 1 or 2
 - No AE leading to discontinuation (related or unrelated)
 - Maximum tolerated dose has not yet been reached
 - Most commonly observed TRAEs: white blood cell count decreased, anemia, neutrophil count decreased, nausea and platelet count decreased

Tumor Reductions and Responses seen in most evaluable subjects after IDE849 Treatment¹



(1) All unconfirmed responses pending further evaluation

(2) Clinical efficacy summary at therapeutic dose levels

Source: Hengrui Pharma. Data Cut off Dec 10, 2024.

ADC = Antibody Drug Conjugate, SCLC = Small Cell Lung Cancer, T-Ab = Total Antibody, PR = Partial Response, u = Unconfirmed, c = Confirmed

IDE849 (SHR-4849): Potential First-in-Class with Preliminary Ph1 Clinical PoC

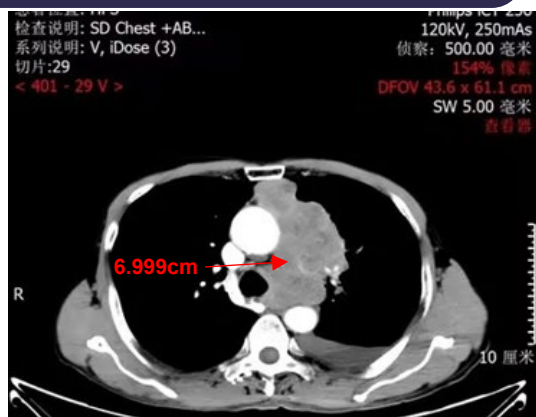
Pre-Treated SCLC Patient Case Study and Preliminary IDEAYA Clinical Development Plan

Case Example in Phase 1 FIH Dose Escalation

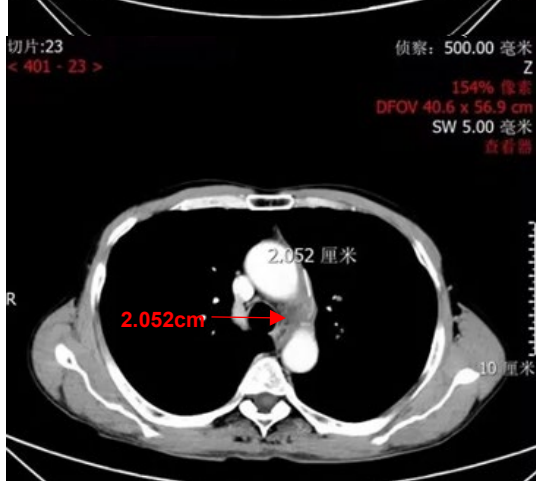
A 70-year-old male with extensive stage SCLC who had failed prior PD-L1 and platinum doublet treatment

The subject was treated with IDE849 and achieved PR at Week 6 with a 70.6% reduction in the large mediastinal tumor mass

Baseline

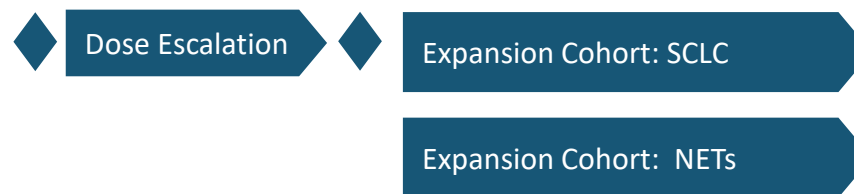


Week 6



IDE849 Phase 1/2 Clinical Development Plan

- IDE849 Monotherapy Dose Escalation and Expansion



- IDE849 Combination with IDE161/PARG



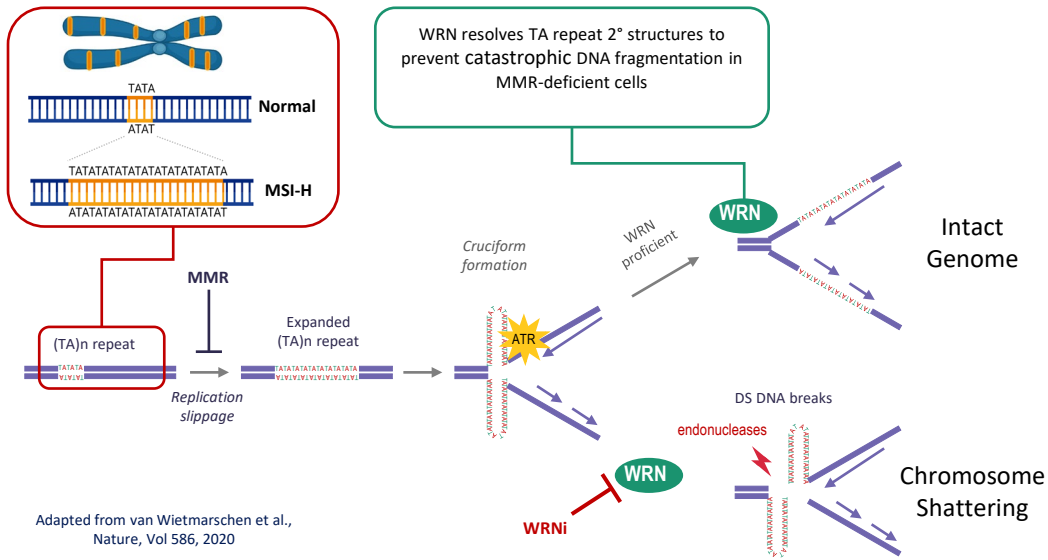
Preliminary Clinical Strategy:

- Potential monotherapy path in 2L plus SCLC
- Evaluate clinical combinations, including with SOC, in 1L SCLC
- Evaluate NETs as monotherapy, including potential basket trial
- Target to enhance durability with IDE849 + IDE161/PARG combo

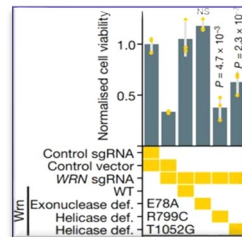
IDE275 (GSK959): Potential First-in-Class Ph1 Werner Helicase Inhibitor **GSK**

WRN Helicase Activity is Specifically Essential for Survival of MSI-high/dMMR Cancer Cells

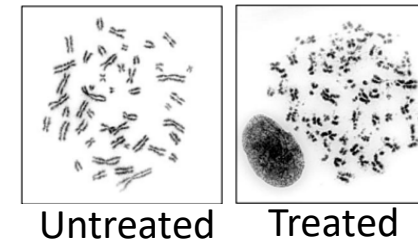
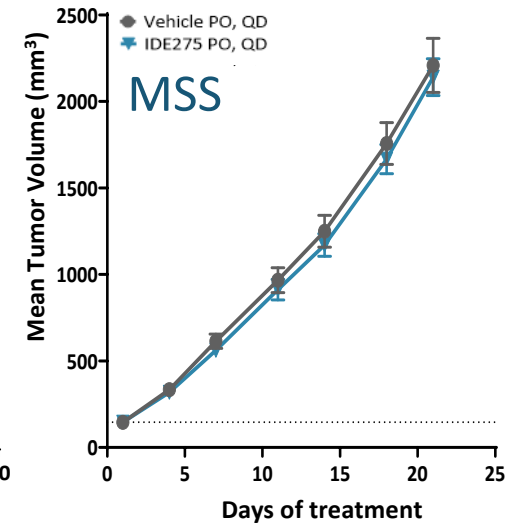
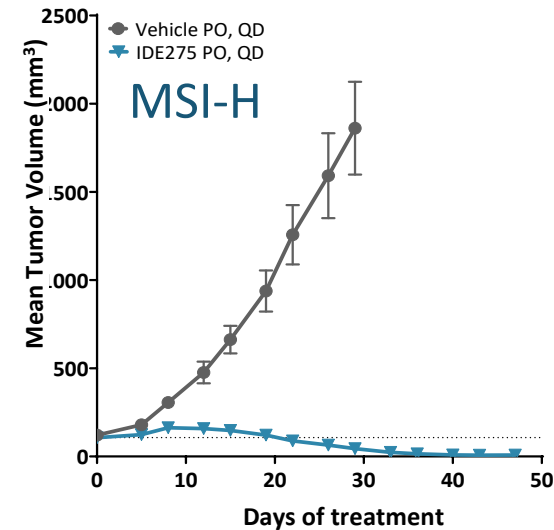
WRNi: tumor-intrinsic DNA damage



WRN helicase domain (not exonuclease domain) most critical as therapeutic target



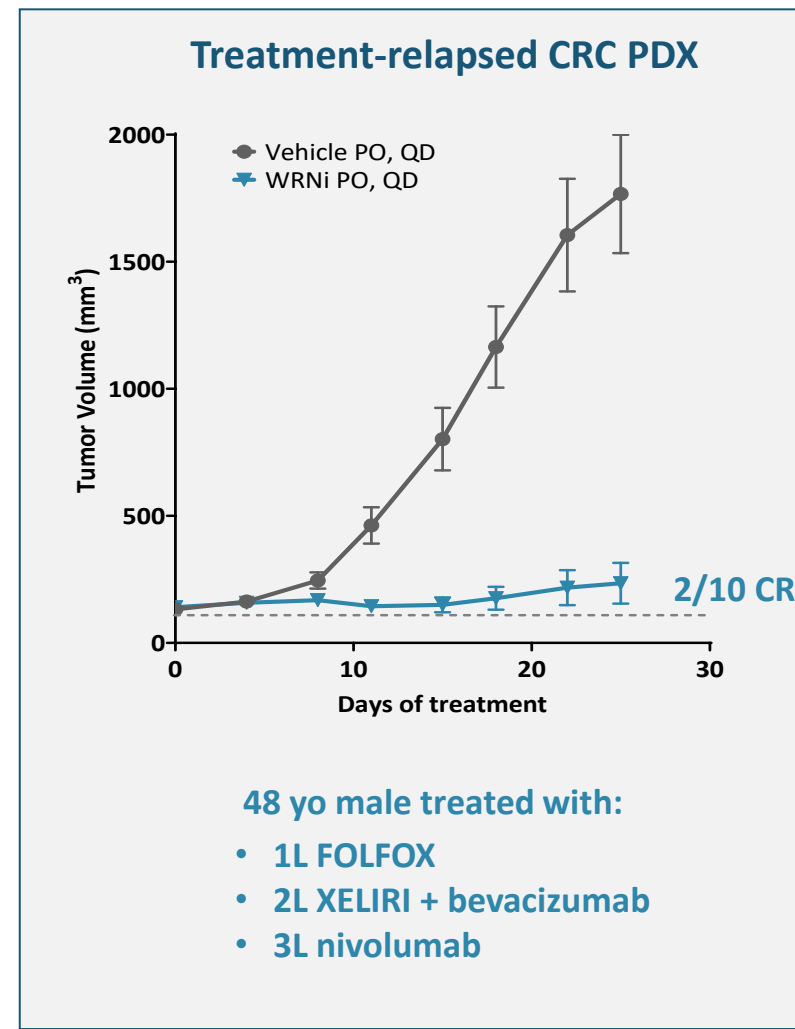
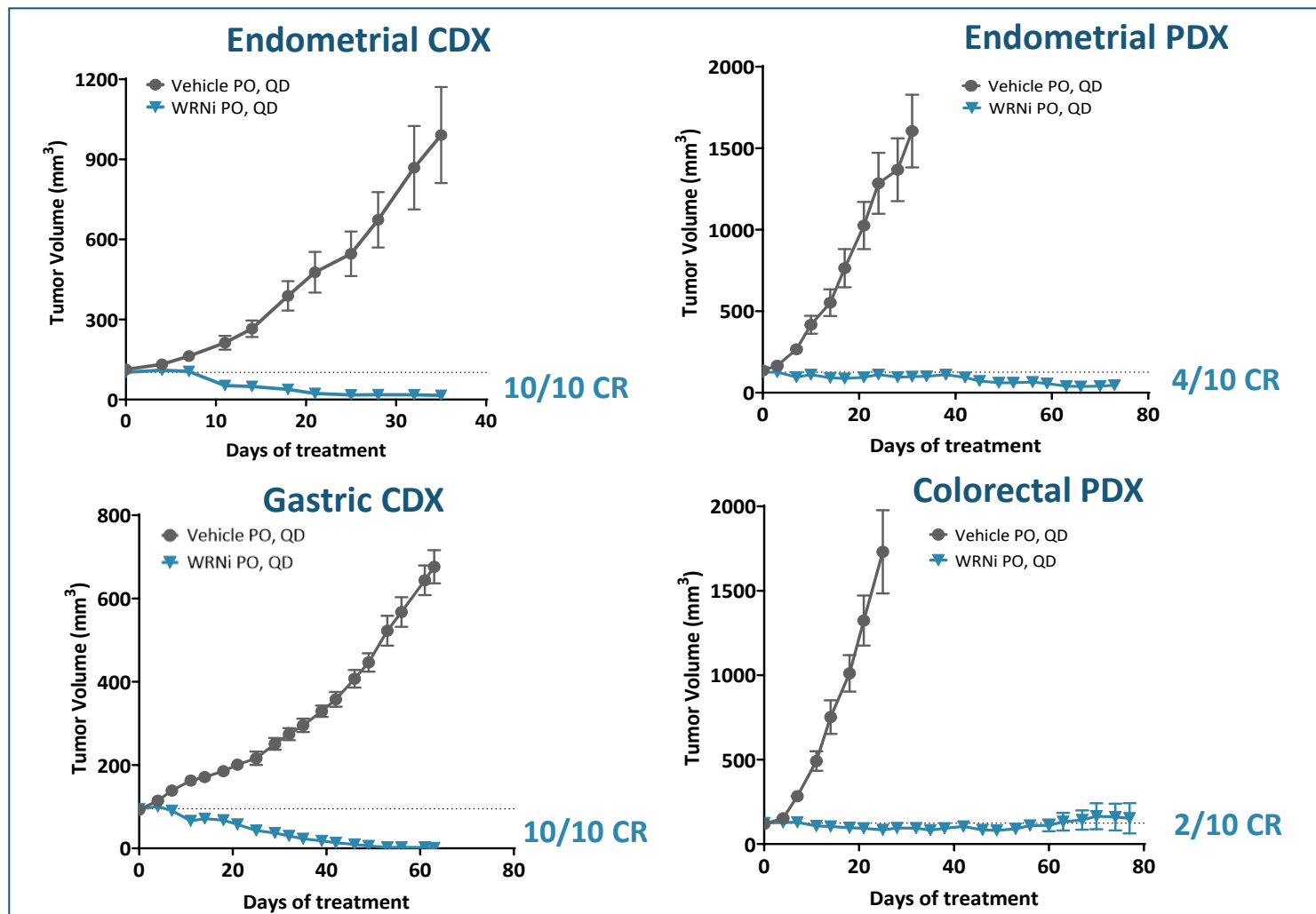
Anti-tumor response is specific for MSI-H



IDE275 (GSK959) Werner Helicase Inhibitor Demonstrates Robust Anti-Tumor Activity in MSI-H and Heavily Pre-Treated Tumors



Supports Clinical Strategy to Expand beyond MSI-H Colorectal Cancers



IDE275 (GSK959): Phase 1 Werner Helicase Inhibitor Clinical Development Plan



IDE275 (GSK959) Werner Helicase Inhibitor

- IDE275 (GSK959) has demonstrated robust and selective synthetic lethality preclinically in the high microsatellite instability (MSI-High) biomarker setting
- Phase 1 clinical trial enrolling patients having tumors characterized by MSI-High (NCT06710847)

Werner Clinical Development Plan

PART 1: Monotherapy Dose Escalation

Monotherapy IDE275 (GSK959)

- ≥18 years old
- >3 months life expectancy
- dMMR/MSI-H tumor
- Advanced (unresectable/metastatic or recurrent)
- Must have exhausted SOC

PART 3: Combination Dose Escalation

Combination IDE275 (GSK959) + anti PD-1

- ≥18 years old
- >3 months life expectancy
- dMMR/MSI-H tumor
- Advanced (unresectable/metastatic or recurrent)
- Must have exhausted SOC

PART 2: Monotherapy Dose Expansion

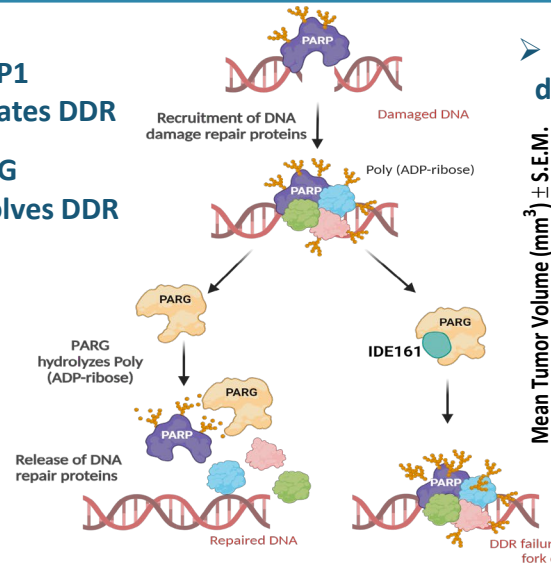
- Histological diagnosis of CRC or EC

GSK Strategic Partnership: 50/50% US Profit Share and ex-US Royalties, ~\$1B Milestones, incl. up to \$20M Preclinical / Ph1 Clinical; Cost Share 80% (GSK) / 20% (IDEAYA); Potential Combination with GSK's Jemperli™, a PD-1 IO Agent

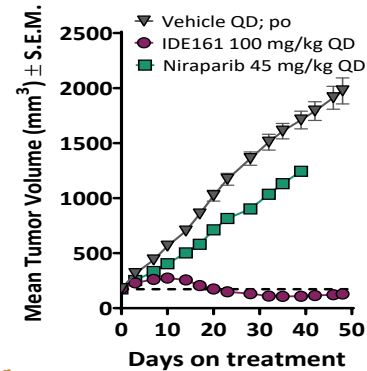
IDE161: Potential First-in-Class Phase 1 PARG Inhibitor

PARG Inhibition is synthetic-lethal with replication stress

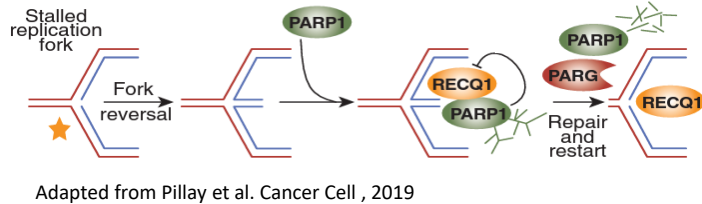
- PARP1 initiates DDR
- PARG resolves DDR



PARG inhibition promotes death by mitotic catastrophe



Oncogene-induced replication stress confers PARG dependency

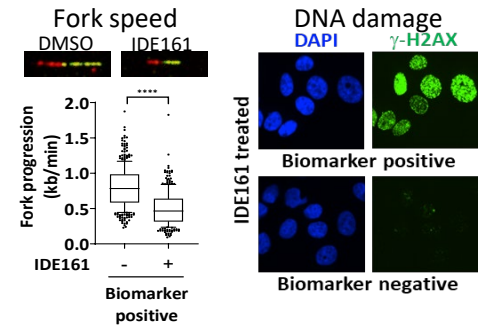


Adapted from Pillay et al. Cancer Cell, 2019

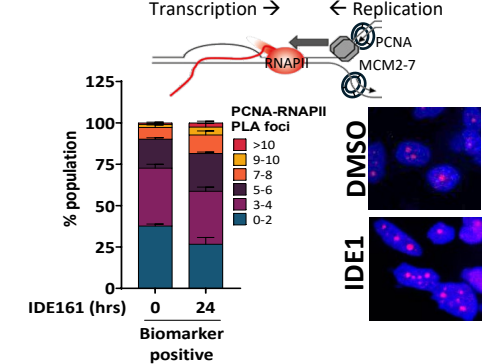
- Replication stress promotes replication fork reversal
- PARG supports replication fork restart

IDE161 disrupts DNA replication fork fidelity

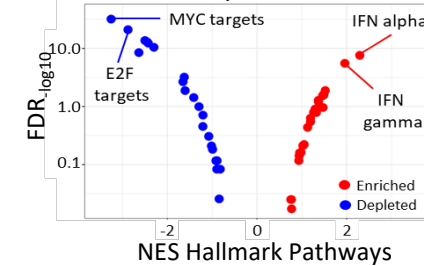
IDE161 induces fork progression defects leading to pan-nuclear DNA damage



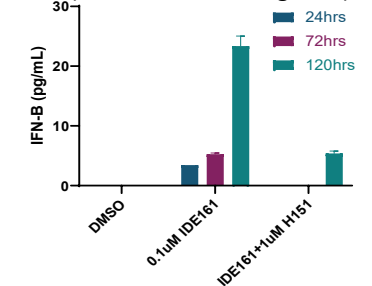
IDE161 induces transcription-replication conflict



IDE161 activates innate-immune response in tumors *in vivo* CDX tumors day 28 IDE161 vs. vehicle



IDE161 induces STING-dependent IFN in tumor cells in culture (H-151: STING antagonist)

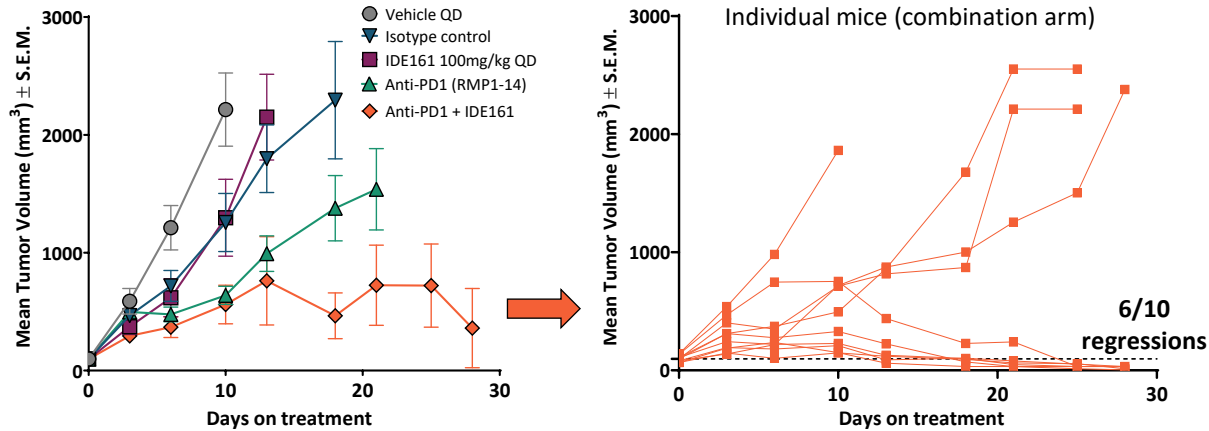


IDE161 Combination Strategies with PD-1 and TOP1i-ADCs

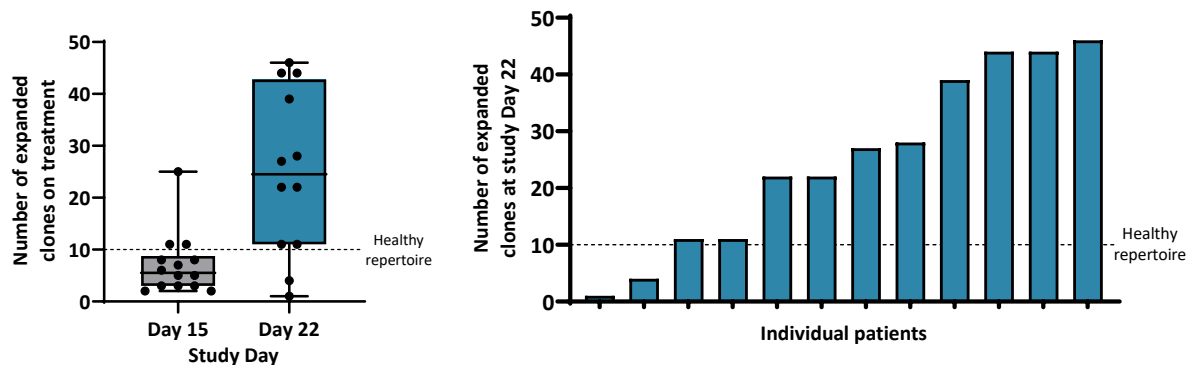
High Conviction Mechanistic Rationale with Potentially Broad Development Opportunity

STING activation by IDE161 enhances antitumor immunity

Anti-PD-1 combination benefit associated with enhanced immune cell tumor infiltration

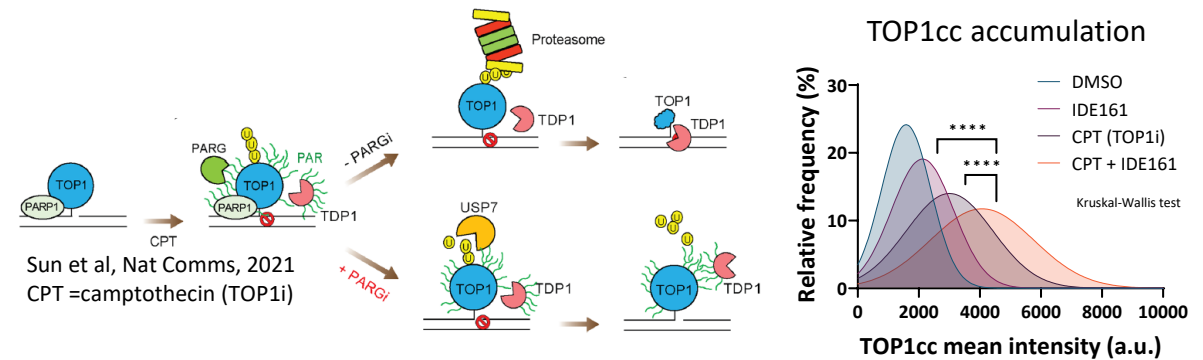


T cell receptor sequencing of clinical PBMC specimens provides evidence of adaptive immune response following IDE161 monotherapy



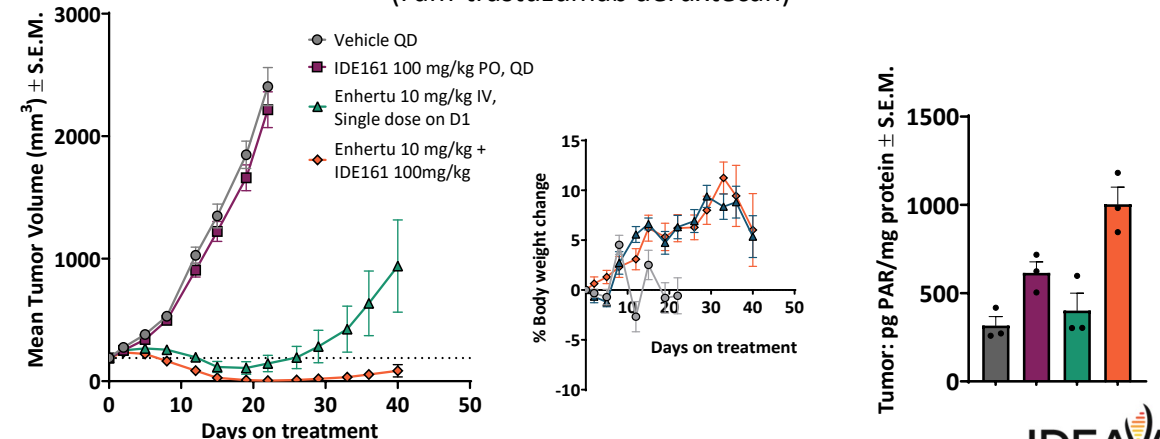
IDE161/TOP1i DDR interaction enhances ADC efficacy

Dual inhibition of TOP1 & PARG induces unresolvable DNA-protein crosslinks



Potential for IDE161 as platform / backbone combo partner for TOP1i-ADCs

HER2⁺ lung; 60% complete responses in combination
(Fam-trastuzumab deruxtecan)



IDE161 Phase 1/2 Clinical Development Plan in Solid Tumors

Clinical Strategic Focus on Rational Combinations with TOP1i-ADCs and PD-1

IDE161 Phase 1/2 – Monotherapy and Combination Clinical Development Plan

IDE161 Monotherapy Dose Escalation and Expansion in HRD Solid Tumors¹



IDE161 + KEYTRUDA® (pembrolizumab) in Endometrial Cancer



IDE161 Topo ADC Combination Opportunities Validated Preclinically



Activity in PARPi- and Platinum-Resistant Settings

Differentiated Sensitivity relative to PARPi's

Targeting Improved Safety Profile relative to PARPi's

IDE161 monotherapy expansion initiated in priority tumor type

IDE161 + Keytruda clinical combo FPI achieved

Targeting to enable IDE161 + TOP1i-ADC clinical combinations in 2025

Facile peripheral PD Biomarker for PARGi based on measurement of PAR in blood samples (PBMC's)

(1) Clinicaltrials.gov: NCT05787587

(2) Pursuant to Merck Clinical Trial Collaboration and Supply Agreement for IDE161 + Keytruda®, Merck's anti-PD-1 therapy; the Company will sponsor the study and Merck will provide Keytruda at no cost

(3) Pursuant to exclusive license agreement with Jiangsu Hengrui Pharmaceuticals Co., Ltd for worldwide rights outside of Greater China

(4) Pursuant to exclusive worldwide licensing and option agreement with Biocytogen

PARG = poly (ADP-ribose) glycohydrolase, PAR = poly (ADP-ribose), PBMC = Peripheral Blood Mononuclear Cells, PSA = Prostate Specific Antigen, EC = Endometrial Cancer, CRC = Colorectal Cancer

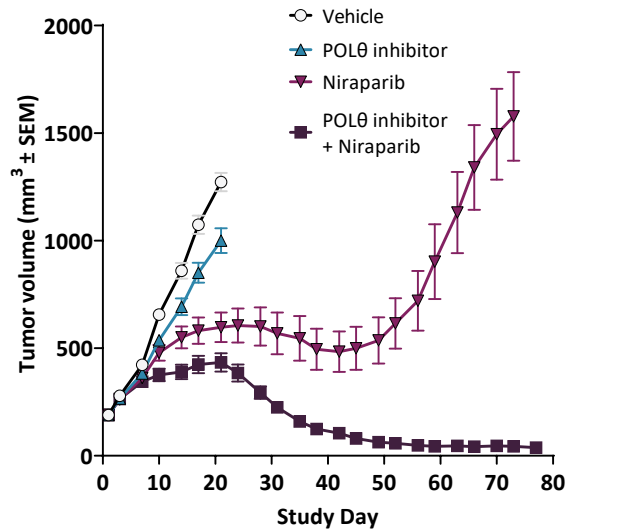
IDE705 (GSK101): Potential First-in-Class Ph1 Pol Theta Helicase Inhibitor

Phase 1 in Combination with Niraparib (PARPi)



Pol Theta Helicase *In Vivo* Activity

IDE705(GSK101) + PARPi

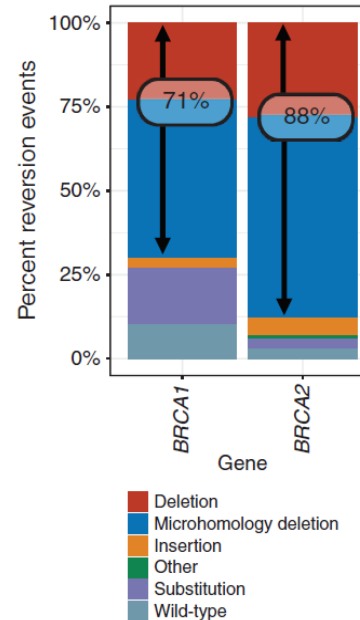


IDEAYA / GSK Data

Observed Deep and Durable Responses in Multiple Xenograft Models

BRCA 1/2 Clinical Reversions

BRCA Reversions Mediated by MMEJ



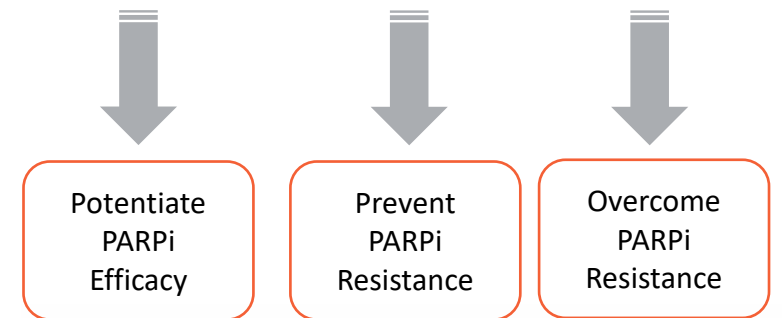
Cancer Res. 2020, DOI: 10.1158/2159-8290

Clinical Development Strategy



Pol Theta Helicase Inhibitors Disrupt MMEJ Alternative DNA Damage Repair:

- Inhibit DSB Repair by MMEJ
- Dysregulate Replication Fork Stabilization



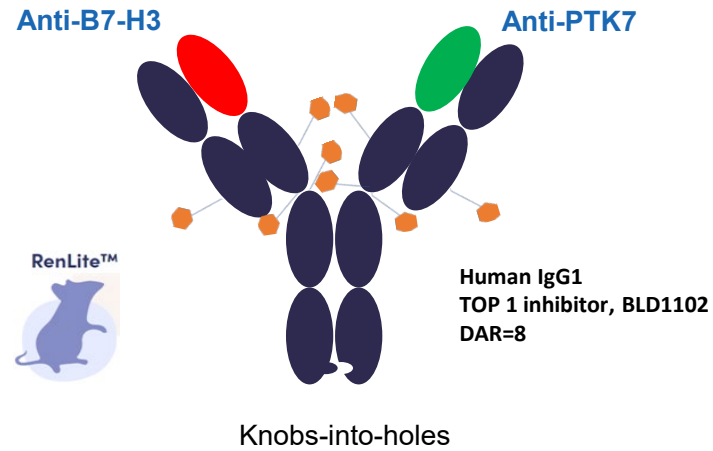
Potential Clinical Opportunities

GSK Strategic Partnership: Global Royalties with GSK covering all Costs, ~\$1B Milestones, incl. up to \$20M Preclinical / Ph1 Clinical Potential Combination with GSK's Zejula™, a PARP Inhibitor

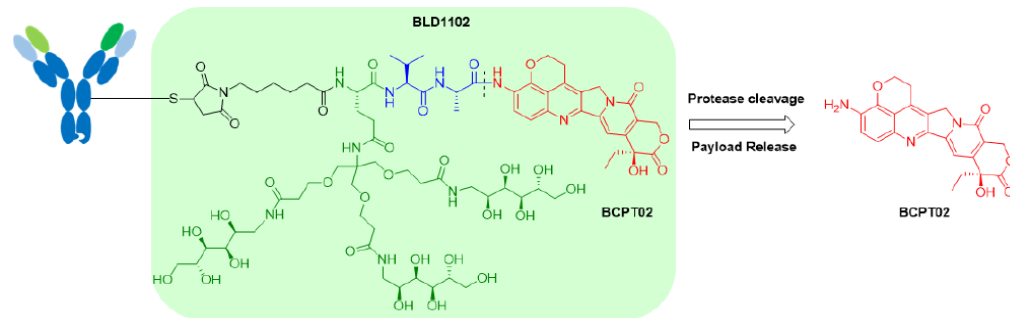
IDE034 DC: Potential First-in-Class B7H3/PTK7 TOP1i Bi-Specific ADC¹

Dual Tumor-Associated Antigen Targeting for Potential Enhanced Therapeutic Window

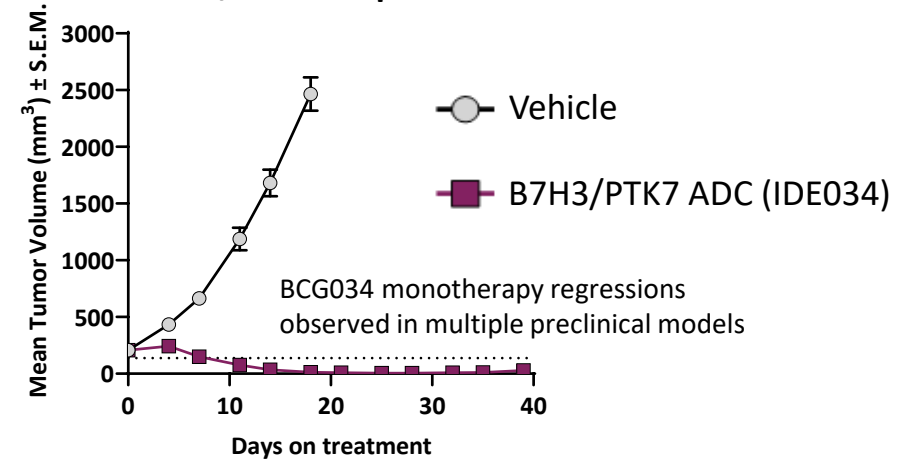
IDE034: B7H3/PTK7 Bispecific Ab-TOP1i ADC¹



Proprietary Topoisomerase I Linker-Payload



B7H3+/PTK7+ Expression PDX Model



- Enhanced tumor versus normal cell binding
- Enhanced internalization efficiency
- Meaningful double-positive disease population²

Indication	B7H3/PTK7 Double Positive %
Lung	29.8%
Colorectal ³	45.9%
HNSCC	27.1%
Ovarian	23.1%

Substantial addressable B7H3/PTK7 patient population

(1) IDE034: B7H3/PTK7 Top1i Bispecific ADC development candidate (DC). Exclusive worldwide licensing and option agreement with Biocytogen; IND-enabling studies ongoing with IND-filing targeted in H2 2025

(2) IDEAYA analysis of Human Protein Atlas

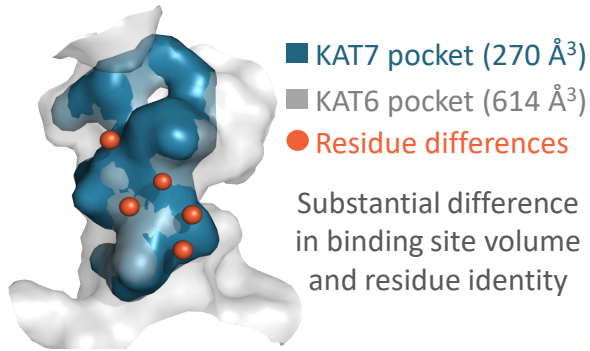
(3) Human Protein Atlas annotates colorectal cancer as bowel cancer

DAR = Drug Antibody Ratio, IND = Investigational New Drug

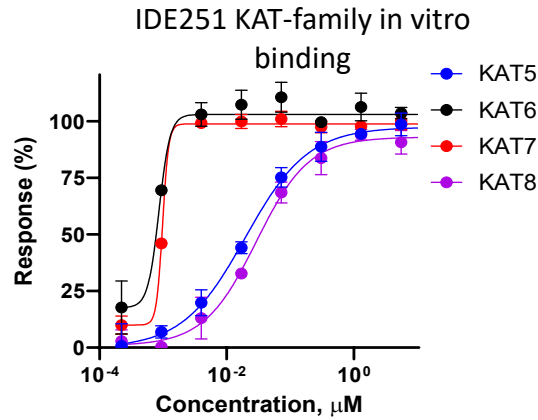
IDE251 DC: Dual KAT6/7 Inhibitor with High Selectivity vs KAT Family¹

Potent Pathway Modulation Delivers Robust Biomarker-Specific Single-Agent Activity

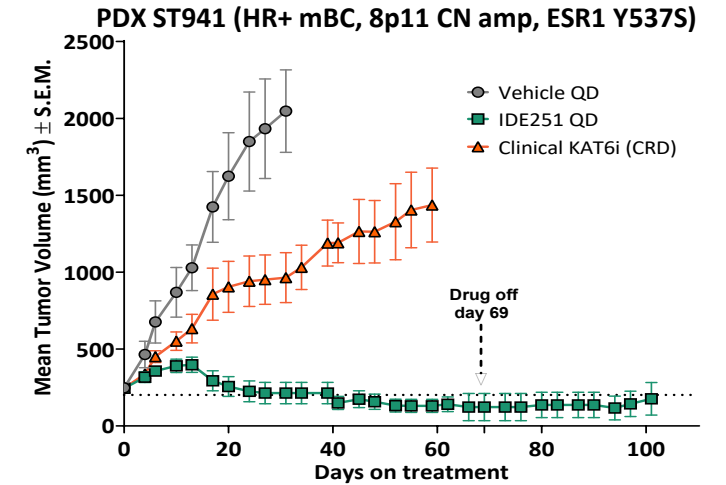
IDE251 solves considerable design challenge



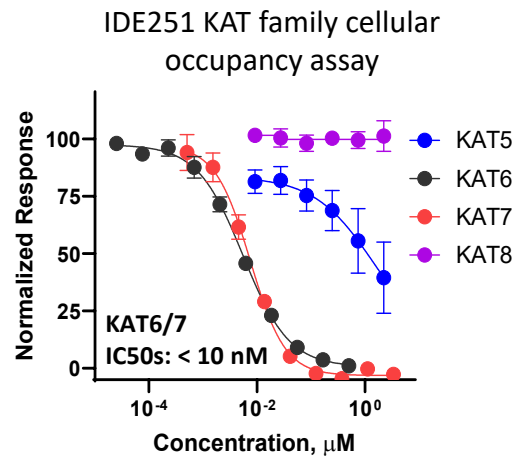
Wide biochemical selectivity window



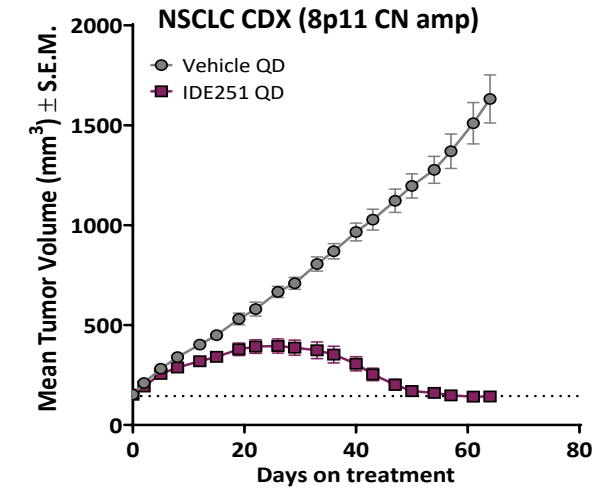
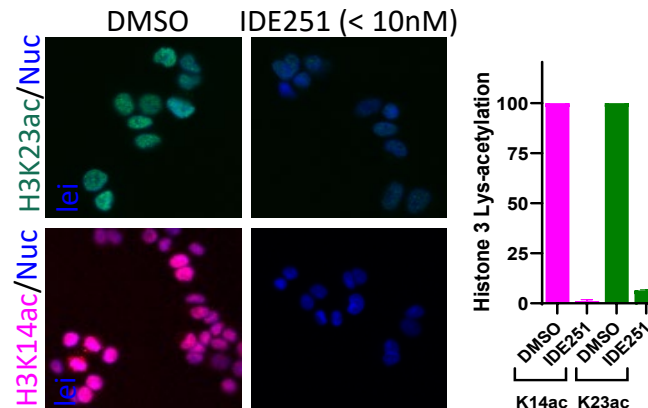
Durable anti-tumor activity



Strong and selective cellular target binding



On-target Kac modulation
ER+ mBC model



Building a Fully-Integrated Biotech in Precision Medicine Oncology

Foundational Potential First-in-Class Clinical Pipeline and Drug Discovery Platform



Darovasertib Registration-Enabling Trial with Potential Accelerated Approval in HLA-A2(-) MUM and Ph3 registrational trial targeted in Neoadjuvant UM is tractable for commercial execution and provides path to potential product revenue to reinvest in broad *first-in-class* pipeline

Potential First-in-Class Precision Medicine Oncology Pipeline, including Darovasertib (Ph2/3), IDE397 (Ph 2), IDE849 (Ph1), IDE275 / GSK959 (Ph 1), IDE161 (Ph 1), IDE705 / GSK101 (Ph 1), IDE892 (IND-enabling), IDE034 (IND-enabling), and IDE251 (IND-enabling)

Strong Balance Sheet with ~\$1.1B⁵ and opportunity for milestone payments with cash runway into at least 2028

Pharma Collaborations including Pfizer, Gilead, Merck, Hengrui, and GSK partnership with ~\$2 billion³ in potential milestones

(1) Clinical Trial Collaboration and Supply Agreements, independently with Pfizer (Darovasertib + Crizotinib), Gilead (IDE397 + Trodelvy®), and Merck (IDE161 + KEYTRUDA®); IDEAYA retains all commercial rights to its products

(2) IDE849 (SHR-4849): DLL3 Top1i Antibody Drug Conjugate. Exclusive license agreement with Jiangsu Hengrui Pharmaceuticals Co., Ltd for worldwide rights outside of Greater China

(3) IDE705 (GSK101) Pol Theta Program Cost Share = 100% GSK with ~\$1B Milestones and WW Royalties; IDE275 (GSK959) Werner Helicase Program Cost Share = 80% GSK / 20% IDEAYA with ~\$1B Milestones, 50/50 US Profit Share and Ex-US Royalties

(4) IDE034: B7H3/PTK7 Top1i Bispecific ADC development candidate. Exclusive worldwide licensing and option agreement with Biocytogen

(5) Includes aggregate of \$1.1 billion of cash, cash equivalents and marketable securities as of December 31, 2024 (Unaudited)